re Mining Journal

THE MINIST DUTENAL AND

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

No. 588 .-- Vol. XVI.]

LONDON: SATURDAY, NOVEMBER 28, 1846.

PRICE 6D.

SIXTT-FOUR SHARES IN ONE OF THE FIRST SILVER-LEAD MINES in the county of CARDIGAN, and SHARES in other valuable BRITISH MINES.

M. R. C. WARTON is directed to submit to PEREMPTORY Auction Mart, opposite the Bank of England, on Wednesday, the 16th of Dec. next, at Twelve o'clock (unless an acceptable offer for the whole be previously made), SIXTT-FOUR SHARES, or 1-30th part, of the valuable SILVER-LEAD MINES, known as LLAN-CYNFELIN MINES—conducted on the Cost-book System: \$5 per share have been paid, and the operations already effected give promise of spiendid results to the abareholders. See Mining Journal, 18th April and 17th June last. Since which reports, the most actisfactory progress is making.—At the same time, will BE SOLD, SHARES in Botallack, Treleigh Cousols, Tamar, Dolcoath, East Wheal Crofty, and other mines.

Particulars, in due time, may be had at the Mart; at the Geldon Lion, Liverpool; at Pearce's Hofels, Turo and Pensance; and of Mr. C. Warton, auctioneer and estate agent, No. 38, Throadneodle-street, London.

VALUABLE AND EXTENSIVE FOUNDRY & ENGINE WORK, at ALLOA, FOR SALE, for behoof of a sequestrated estate.—TO BE SOLD, BY PUBLIC AUCTION, within the Waterloe Hetel, Edinburgh, on Tuesday, the 8th day of December, at Two o'clock, in the Afternoon, at the GREATLY REDUCED upset price of 50001, and WITH IMMEDIATE ENTRY.

THE ALLOA FOUNDRY AND STEAM-ENGINE MANUFACTORY,
WITH HARBOUR ATTACHED,
Containing most ample accommodation, and every facility for carrying on the business of IRONFOUNDING, LOCOMOTIVE and STRAM-ENGINE MANUFACTORY,
The Premises cover nearly Two Acres of Ground; the Buildings are most substantial having been constructed within a few years entirely of stone. They are particularly well strated for supplies of FIG-IRON and COAL—three large Iron-Works being within a short distance, and coal in the immediate vicinity of the works. The produce of the Mauusetory can be shipped from the Harbour belonging to is, free of any dues, and the Stirling and Dunfermline fallway will pass near the Works, and form a connection with all the great lines of railway in the kingdom. The MACHITERY, UTENSILS, and PATTERNS (the latter being extensive and useful), are all of the best description, and in excellent order.

A detailed description of the Works (which are in operation), appeared in the Minima

illent order.

A detailed description of the Works (which are in operation), appeared in the Ministerial, 17th Oct.; and, for further information, application may be made to Mr. Brydlanker, Allos: Messrs. Lockhart, Hunter, and Whitehead, W.S., 84, Great King-stree dinburgh (who are in possession of the titles, and inventory of the machinery, atenally...); or to Mr. Muir, 17, Quality-street, Leith, trustee on the Estate.

Particulars may be had at the office of the Mining Journal, 26, Fieet-street, London. Leith, Nov. 19, 1846.

ADJOURNED SALE.—UPSET PRICE REDUCED.

X TENSIVE AND VALUABLE IRON-WORKS,
IN CLOSE VICINITY OF THE HARBOUS OF ABENDEEN.
There will be assin exposed FOR SALE, BY FUBLIC ROUP, within the Lemon Tree
Tavern, Aberdeen, on Salurday, the 19th day of December area, at 50x o'clock, p.m., those
extensive and valuable PREMISES, at FOOTDEE, ARRIDEER (bounded on the west

Tavern, Aberdeen, on Saturday, the 19th day of December Roxi, at Sax Oucces, P. S., those extensive and valuable PREMINES, at FOUTDEE, ARENDEEN (bounded on the west by the harbour), known as

"THE DEE IRON WORK,"

and long employed in the ENGINEERING and MILLWRIGHT BUSINESS, and in RON-FOUNDING, BOILER-MAKING, IRON SHIPBUILDING, BLACKSMITH WORK, BRASE FOUNDING, &c. &c.

These rorks are very compact, and much more advantageously situated than many other works of the same description, for iron shipbuilding, and engineering business—having a WATER FRONTAGE to the HARBOUIL, and in close connection with the other parts of the establishment—and the whole lying no consignous, that all the branches of the business are retried on under the same appointendesse.

In the BUILDING YARD several iron vessels may be proceeding at one and the same time, of from 200 to 200 tops burthen; and the books and machinery in this department are believed to be equal to any in the kingdom; there are other accommodations for carrying on this branch of business in its fullest perfection.

In the ENGINEERING DEPARTMENT the tools and machinery qual in magnitude to any known at the present day, and are sufficient to employ (constantly) from 100 to 150 men. In connection with this department, the building and fitting of locomotives may be carried on to the greatest extent.

The RON FOUNDING DEPARTMENT is fitted up in the most complete manner, and capable of turning out both neavy and light castings, and of fully employing 60 mes.

In the BOLLER-MAKING DEPARTMENT, which is separate from the iron shipbuilding premises, there is a complete set of tools and machinery, of the best description, capable of employing 150 men.

In the BOILER-MAKING DEPARTABLY, which appears there is a complete set of tools and machinery, of the best description, caable of employing 150 men.

In the BLACKSMITH SHOP there are 12 forges, all blown by fan-blast, with cranes
tached to the principal ones, and each forge having a complete assertment of tools, for
unincering, millwright, and shipbuilding purposes.

The MILLWRIGHT and PATTERN-MAKERS' DEPARTMENT has a full assortment
of all kinds of Jöhner and millwright's tools and faxtures, for the employment of 25 men,
with a large stock of the most modern and useful patterns, which will be given over with
he works.

There are also the necessary machinery and tools for carrying on the BRASS-FOUND G and FINISHING BUSINESS, and PLUMBER and COPPERSMITH WORK, to

large extent.

The whole establishment, if fully employed, is capable of turning out work to the amount of £50,000 or £70,000 a-year; and having been for several years, and still being, in full operation, the purchaser will have the advantage of commencing business immediately.

The greatest facilities of communication are afforded, by regular trading steam and other vessels, from Aberdeen to London, fill), Newcastle, and Leith, in the south; and inverness, Wick, Orkney, and Shetland, in the north.

The extensive improvements on the harbour, now going on, and the projected railway schemes in connection with Aberdeen, afford every prospect of full employment for a work of this description, for a long period to come.

If the purchaser were desirous of removing the plant elsewhere, the cost of transmission would be comparatively small; and the buildings are so constructed as to be convertible into other manufacturing purposes, at little expense, as there are three fixed steam-engines on the premises.

steam-engines on the premises.

The price of the works, and other particulars, will be arranged so as to suit the coff the purchaser.

For further information, apply to Mr. J. Hunter, W.S., 13, Hill-street, Edinburgh, Wm. Robison, advocate, 68, Castle-street, Aberdéen; or to Mr. Vernon, at the works, who will show the premises, and, on application, forward a plan of the buildings, and inventory of the machinery, tools, &c.—Aberdeen, Nov. 10, 1846.

of the machinery, tools, &c.—Abardeen, Nov. 10, 1846.

PORTY-INCH STEAM-ENGINE FOR SALE.—An excellent CORNISH CONDENSING ENGINE TO BE SOLD, BY PRIVATE CONTRACT, cylinder 40 inches diameter, in a steam case; stroke 9 fost in the oplinder, and 8 feet in the shaft. This engine now stands at the Frougach Mine, near Aberystwith, and ray be viewed by application to the agents on the mine. It will be sold with or without two cylindrical boilors, which are attached to it, and will be delivered by the owners on the Quay at Aberystwith. The engine is perfectly complete, and in good condition—the has never done much work. The price of the engine, including the first piece of rod, the steam and feed piece, and all boller connections, is £650, delivered at Aberystwith. The bollers, with the engine, or separately, is £19 per ton on the Quay at Aberystwith. The bollers, with the engine, or separately, is £19 per ton on the Quay at Aberystwith. Also, a PLUMGER LIFT, of 18 fathours in length, applicable to a water-works or shallow colliery. The planger pole is 23 inches diameter, and the columns of 24 inches bore. The price of this lift, complete, is £3 by the per ton for the cast-from parts, delivered in Aberystwith, and 2d, per th. for all the bolts, rings, &c., delivered.

Applications to be made to John Taylor, Jun., Eq., 2, Duke-street, Adelphi, London; or to George Fossett, Esq., Aberystwith.

Lisburne Mines, Nov. 37, 1846.

TOR SALE, BY PRIVATE CONTRACT, at WHEAL PERRAY, now forming a part of the Perran St. George United Mines, a SINGLE ACTING HOTATORY STEAM-ENGINE, without botter, which was crected quite new on that mine, and was in use only a short time; cylinder 30 inches diameter, 8 feet stroke, equal beam, with large fly-wheel, craike, sharts, and sweepred, complete. This ongine is very compact, and well made -works on the expansive principle, and may be applied for pumping only—and for which purpose it may be had without fly-wheel, &c. There is also an excellent CRUSHING MACHINE, or GRINDER, attached to it, which may be had cheap. Application to be made to Capt. Thomas Pill, at Perran St. George United Mines; or to Mr. James Sims, engineer, Redruth.

MINES TO LET.—TO BE LET, BY ROYALTY, the COAL and IRONSTONE MINES, under upwards of 100 acres of land, at SWIN-TR, near Histley.—The Staffordabire and Worcestershire Canal passes through the take.—For particulars apply to Mr. William Fellows, solicitor, Dudley.

GLENKENS LEAD AND COPPER MINES, KIRKCUDBRIGHTSHIRE.—In consequence of MINERALS, of considerable value, having been found on the ESTATES in which the GLENKENS MINES are situate, an Act of Parliament has been obtained, to enable the trustees to GRANT MINERAL LEASES. These mines are situated in the centre of a mineral country, and in the vicinity of the flourishing lead works of Carsphairn, Lead Hills, the Newton Stewart, and Heston Island Copper Mines, the Kirkcudhrightshire Mining Company's works, and others in that part of Scotland.

in that part of Scotland.

The proprietor has been, for the last two years, exploring and opening the ground; and two promising lodes have been proved, which are now being opened and extended by Jornals miners. There being every prospect of a most astisfactory result at an early period, as appears from the reports of the sweral mine agents who have inspected the lands, a also of the capital now superintending the works, a company is being formed, to give be misses a fair trial, on the principle of the Oue-book System, by dividing the interests to 1000 shares, of which some lew still remain unappropriated.

Flans of the sett, comprising about 1900 acres, and the ceveral reports, may be seen, and every information chartness, at the offices of Mesers. Bulleck and Luccombe, So. 33, seconds of Luccombe, to whom applications for dures must be seen Luccombe, to whom applications for dures must be seen.

GENCY IN DUBLIN-WANTED, by a GENTLEMAN, A baring an extensive Irish connection, and 18 years' experience in general business embracing frommongery, Stationery, Wine Trade, &c.—at present Agent in Iroland for Spanish house, and viating the chief provincial towns. Advertiser would treat with British house, or company, desirous of an AGENT, for SALE of PATENT INVENTIONS PIG and BAB-IRON, STEEL, CASTINGS, IRONMONGERY, STATIONERY, CHE MICALS, &c. Respectable references given. Pigase address "Irish Agent," 6, College green, Dublin.

TO COALOWNERS—those possessing COLLIERIES, or FIELDS, of CANNEL, PARROT, or other similar highly BITUMINOUS qualities of COAL—WANTED, in London, a SUPPLY of this DESCRIPTION of COAL, for the purpose of manufacturing pass. The coal in question abounds in Lancashire, Yorkalire, Northumberland, Durhaun, and some other counties in England, in Scotland, and in parts of South Wales, and is found to be superior for gas purposes, particularly in the illuminating power of its gas. Any proprietors possessing such coal, and can deliver it in London, either by sea, cannal, or railway, will be pleased to communicate with Joseph Hedigy, Esq., General Consulting Gas Engineer, 29, Bucklersbury, London—stating quantity that can be delivered aimuniley, present price per ton delivered at a wharf or railway station in London, quality, so far as known, and other particulars.

SULPHATE OF BARYA G.—WANTED, STONE of Good QUALITY.—Address "A. G. S.," Saddle Inn, Liverpool, stating quantity and price, delivered at Liverpool or Russory.

TO CAPITALISTS.—The ADVENTISER is in possession of an IMPROVEMENT of an ARTICLE of GLEAT CONSUMPTION in all MINES, QUARRIES, EXCAVATIONS, 4c., and will COMMUNICATE PARTICULARS to any honourable gentleman, or company, that may be disposed to carry on the "ANUFACTURE of the ARTICLE. From \$700 to £400 will be quite sufficient to secure patent and carry on the whole business. The new article will entirely superved the article now and carry on the whole business.

Nonourable gentleman. or company, that may be disposed to earry on the 2 ANUFACTURE of the ARTICLE. From \$700 to £ 2000 will be quite sufficient to secure patent and carry on the whole business. The new article will entirely supersede the article now in use.—Address (post-paid) to "S.F., care of Mr. Jouch Shus, engineer, &c., Tavistock VENTON, Company, and others disposed to be article now in use.—Address (post-paid) to "S.F., care of Mr. Jouch Shus, engineer, &c., Tavistock VENTON, Company, and others disposed to join the prosecution of the works at the above sett, are informed that the whole of the surface works are now completed, including the erection of a powerful engine and all necessary buildings, and that, on application as below, they may receive shares on equal terms with the original projectors; and, as the number of shares to be disposed of are but limited, early applications are recompended. The sett is divided into 1000 shares, and to total cost and outlay, to ensure results, has been estimated not to exceed \$5 per share.

VICTORIA TIN M. T. D. J. RELIN, Hon. Sec. Office, No. 4. Austafriars.

VICTORIA TIN M. T. D. J. RELIN, Hon. Sec. Office, No. 4. Austafriars.

VICTORIA TIN M. T. Capital 10,340 shares, of £3 each.—Deposit £1 per share.

DEBUCYCLE.

JOHN HOLMES, Esq., Constructs.

Capit. JAMES CHYNOWETH.

BANKERS—Commercial Bank of London, Luthbury, and Henricita-street, Covent-garden.

Six Claude Scott, Bart., and Co., Cavendish-aquare.

Six Claude Scott, Bart., and Co., Cavendish-aquare.

Notice is heroby given, that the directors have completed the allotment of the shares of this company, and ISSUED the LETTERS of ALLOTAENT. By order,

Capit. BARBARA SILVER—EAD AND COPPER MINE, two miles from the port of WADEABRIDGE, CORNWALL.

Capital £12,900, in 2560 shares, of £5 each.—Deposit 30s, per share.

REGISTERED PURSUANT TO ACT.

This mine is in a district tong known as productive of silver-lead and other ores; on the cast the Treburget Mine has produced immense quantities. The proprietors have driv

driven an adit about an analysis and copper ores; an assay, by Mr. Richard Rodds, of St. Austell, gave 44 oz. 12 dwis. to the ton of lead, and other lodes are known to exist within the set.

The proprietors retain eachalf of the shares, free of deposit, but subject to calls, as consideration for the property and cost up to August last—the remaining 1280 shares pay the deposit of 30s. each, to provide the engine, and to carry on the works, which the proprietors confidently expect will sharely become profitable.

About one-half of the 1290 shares are yet to be appropriated, for which application may be made to the directors, at the company's office, 8, Gresham-street, London, where reports, prospectuses, maps, specimens, leases, &c., may be seen.

8, Gresham-street, London, Nov. B. 1846.

WHEAL CURTIS COPPER MALE COMPANY, in the PARISH OF CROWAM, NEAR CARBORNE, CORNWALL.

In 6000 shares, of 44 each.—Deposit 21 los, per share.

FROVISORAL DIBECTORS.

GEORGE PILKINGTON, Eq., C.E., late Captain Royal Engineers.

GEORGE EVANS, Esq., C.E.

MARTIN STAPLEY, Esq., Homerton.

(Other directors will be shortly published.)

BANKERS—Messrs, Cunliffes, Brooks, Cunliffe, and Co.

Societions—Henry Bull, Esq.

Societions—Henry Bull, Esq.

Societions—Henry Bull, Esq.

This mine is in its infancy, the shaft-being now only at the depth of 47 fathoms below the adit; nevertheless, it has already produced upwards of £10,000 by its copper ore, one-half of which sum the late Mr. Thomas Tengne, of Redratis, the celebrated mining captain, who worked this mine at his own individual cost, appears to have expended in carrying on the worked this mine at his own individual cost, appears to have expended in carrying on the worked this mine at his own individual cost, appears to have expended in carrying on the worked this mine at his own individual cost, appears to have expended in carrying on the works, so that by reason of his decease the mile left in the hands of the accounters was abandoned at the very point to which his hopes of wealth had

in prospectial) very productive.

In prospectial, very productive.

In prospectial, very productive.

In and profitable mine will be found if prosecuted to deeper levels." These gentlemen (the Vivians) are so well-known that their opinions are relied on by those accustomed to mining operations.

To follow up the foregoing opinions, it is nocessary to fork the mine, and to sink a new shaft to the westward of the present one, directly over a rich bed of ore mentioned in the report of Capt. Richard Rows and Mr. Henry Thomas, F. G.S., as in prospectus, and to open new and deeper levels, as well as it, a votk effectivally those airvally made, which Capt. Tosque's decease prevented him accomplishing, and to carry on which works a powerful 70-inch engine has been required; therefore a company has been previsionally formed to carry out those objects, for which purpose it has been determined to distribute the interest of this mine into 600s shares of 24 self.

Adeposit of 32s. is required to be gaid on each share, and it is expected that no further portion of no. 24 will be necessary.

Of the 600s shares referred to, 200 have been taken and paid on by the promoter of this company, who has thus given the best possible proof of his opinion of the prospect of valuable remmeration to adventurem; and of the other 3000 shares 1600 only remain to be allotted, since the issue of the first prospectus.

No call shall exceed the sum of 8. per share. No responsibility will attach to any shareholder beyond the deposits paid, and the calls to be made on the shares: this to be socured by registered deed of societiement, as will as law and equity can devise.

There are six lodes in this sett, each considered equal in value to that of the neighbouring mine, called the Whela Abraham, which yielded 2300,000. Therefore 21,800,000 may be taken from this mine by well-directed energy.

It is a well-known fact that shares in mines recently opened under inferior prospects to those which Whela Curtis presents, wire purchased at allow a price as

COPPER ORE, from the best localities, as Grey, Black Oxid. O ulpharet.
COBALT OXIDE, yielding from 36 to 80 per cent.
CHROME, yielding from 36 to 40 per cent.
MANGANESE, yielding from 56 to 90 per cent.
LEAD ORE, of the best quality.
LINC, in form of Blende and Calemine.
Likewise, SOAP STONE, WHITE VITREOUS FELSPAR, BLACK LEAD, PURE WHITE LEAD, MICA, in ansall and large objects.
THE ABOVE NATURAL PRODUCTIONS may be obtained in any quantity, and on the most reasonable terms, by applying to Dr. Lewis Tenchtwanger, New York City.

NOTICE TO THE MANAGERS OF MINING COMPANIES.

Mr. MITCHELL (late Mitchell and Field) begat to innounce, that ASSAYS and
ANALYSES of all descriptions of ORES, MINIERALS, and FURNACE PRODUCTS, are
conducted at his LABORATURY, M. HAWLEY-ROLD, KENTISH TOWN, to which
direction all communications are to he addressed.

N.B.—instruction in all braceless of assaying and mineral analysis as usual.

TO MINE AGENTS.—WANTED, at BOSCASWELL DOWNS MINE, in the parish of St. Just, in Ponwith, an active and intelligent AGENT, who is thoroughly competent to take the MANAGEMENT of a large TIN MINE. No one need apply who cannot produce militatory testinguishs as to character and ablilities.—Application to be make, on or before the 18th Dec., to Capt. Trewcoke, Halsetown, St. Ives.—Dated Boscaswell Downs Mine, Nov. 23, 1846.

REAT WHEAL ROUGE FOR CONSOLS.—MINING
CAPTAIN WANTED.—He will be received to produce testimosials of his shillty
to conduct this concern with economy and judinent; he must have a thorough knowledge of underground operations in their various departments, as well as of the arrangement and application of machinery. None need apply except first-closs agents, of great
experience. Salary £10 per month.—Application to be neade by letter, addressed to W.
A. Thomas, Esq., of 50, Threadneedle-street, London, under cover, to Mr. Jostah H. Mitchins, Tavistock, Devon.—N.B. A STEAM-ENGINE WANTED, of from 46 to 60-inch
cylinder.—Nov. 19, 1846.

Cyunder,—Nov. 19, 1846.

SOUTH WHEAL BASSET OFE (128th) SHARE in this to be addressed to "X. X.," 13, Moorgate-street; and, if accepted, an answer will be insmediately returned.

ALUABLE MINE SHARES FOR SALE.—FOR SALE,
BY PRIVATE CONTRACT, THREE Clarks, or SHARES, of and in
all that valuable COPPER MINE, called WHEAL CLIFFORD, situate in the parish of
Gwennap, in the county of Cornwall, adjoining the United Mines on the wast, the Consolidated Mines on the north, and Wheal Andrew and Nanglies on the east. The rich and
productive locks of the United Mines pass through Wheal Clifford east: and there is every
probability that they will be as productive in it as they are, and have been, in the United
Mines.—To treat for the sale, application must be made, either personally or by letter (prepaid), to Mesers. Passingham and Simmons, solicitors, Truro.

Dated Nov. 5, 1846.

paid), to Mesers. Passingham and Simmons, solicitors, Truro.

Dated Nov. 5, 1846.

MINING OFFICES, THREE TING'S-COURT, LOMBARD-STREET TOMOS.

Mr. R. TREDINNICK, of Cornwall, being in constant communication with practical agents in the several mining districts, PROFFERS his SERVICES to capitalists and adventurers in the PURCHASE and DISPOSAL of SilaRES of every description; also, obtaining authentic reports and data relative thereto. Mr. T. has on sale shares in the best dividend-paying mines in Cornwall and Devon, at from three to five years' purchase, whilst those on the eve of paying are selling at corresponding low prices. Every information afforded, on personal application, gratuitously.

BUYER in Condurrow, East Crofty, North Rockear, Wheal Jane, Cubert, Alfred Consols, Wheal Maria, West Providence, and Wheal Agar; and SELLER in West Seton, Whoal Seton, and all the best dividend paying mines in Cornwall and Devon.

MINING PROPERTY.—CAPITA ISTS who are disposed to INVEST in CORNISH and FOREIGNETICS, will find the present opportunity investments for railway speculations, standard mines are now setting at prices that will pay the purchasor 30 per cent. per annum for his outlay. There are also other mines that are on the eve of paying dividend, which can be recommended with confidence. Applications to be made to Mr. JAMES HERRON, mining agent, No. 3, Adam's-court, Broad-street, London.

pay the purchaser as per cent. For animat for its socials. Interest are also denote these that are on the eve of paying dividends, which can be recommended with confidence. Applications to be made to Mr. James Herikin, mining agent, No. 3, Adam's-court, Broad-street, London.

WILLIAM H. SMITH, MANNIG SHARE AGENT.

10, WARNFORD-COURT, THROGNORON-STREET,
has SHARES FOR SALE in the following MINES—vis.:
WHEAL BLENCOWE, WHEAL LOUISA,
WHEAL LOUISA,
WHEAL LOUISA,
WHEAL LOUISA,
WHEAL LOUISA,
WHEAL TO NOTIFY THE STREET, CORNHILL, LONDON.

MINING OFFICES, 1, ST. MICHAELS STREET, CORNHILL, LONDON.

WATSON AND CUETA. MINING COMPANY.

*Every information will be afforded on application.

MINING OFFICES, 1, ST. MICHAELS STREET, CORNHILL, LONDON.

WATSON AND CUETA. MINING COMPANY.

*Every information will be afforded on application be SHARE-HOLDERS in MINES in Cornwall, Devon, Scotland, Iroland, Wales, and Spain.

WILLIAM TRENERY, DEALEH N RAILWAY AND MINING SHARES.—ESTABETISTED TEN YEARS.

OFFICES, No. 50, TREADNEEDLE-STREET, LONDON.

MR. JOHN CHAPMAN, ACOUNTANT, MINE AND GENERAL AGENT, 17, OLD BROAL TEET, ROYAL EXCHANGE, Returns his grateful thanks to his friends for the confensace and support he has received from them since he commenced business. He begs leave to acquaint his friends, that he now also undertakes the BUSINESS of ACCOUNTANT, in which branch he hopes to receive additional favours from them.—Nov. 4, 1846.

THOMAS P. THOMAS is a BUZZEJO Wheal Trelawney Wheal Mary Ann, Wheal Trehame, South Fines, Condurrow, Stray Park, West Jowell, Wheal Seton, South Tolgus, and North Pool; and is a SELLER of United Mines, Thag-Tang, United Hills, Berley, Comfort, Teretheliam, West Trewhalam, son West Tolgus.

10, THERADNEEDLE-STREET, LONDON.

MESSRS. LINTHORNE, JONES and CO., STOCKS MINING, AND SHARE AGENTS

*• Every information will be afforded as to the market and prices of the above, by application (post-paid) at their offices,

48, THREADNEEDLE-STREET, LONDON.

MESSRS. R. CLARK & CO beg to confirm their friends and the public in general, that they have taked to FRUS as below, where they intend to carry on BUSINESS as STOCK, SHARK, and MINING AGENTS; relying with confidence upon the method adopted by them for conducting all business entrasted to their agency, Messrs. E. C. & Co. solicit a continuance of that support it will be, by strictest attention to all orders, their endeavour to deserve.

N.B.—Money advanced upon serip and other securities.

3, Austinfriars, Broad-street, Gct. 17, 1846.

MESSRS. J. PAINTER and C., SHAREBROKERS, MINING AND GENERAL AGENTS.

AFFORD EVERY INFORMATION as to the STATE of the MARKETS, PRICES, &c.,

AFFORD EVERY INFORMATION as to the STATE of the MARKETS, PRICES, &c., upon application.

CHARLES T. CRAPP, LERE DEALER, TAVISTOCK,
Possessing facilities of acquiring the earliest information respecting the mines of this important district, proffers his services to gentlemen desirons of obtaining such; whilst his local connection affords him the assistance of the most efficient mining agents in furnishing reports, plans, &c., of mines, to those who may favour him, with the instructions.

VILSON & FRASER, 2, WEILLY FON - BUILDINGS, LIVERPOOL, and 13, EXCHANGE PLACE, GLASGOW, have always ON SALE PIG-IRON, BAR-IRON, RAILWAY CHAIRS, and RAILWAY BARS.

VILLIAM FOX AND SON, NO. 3, ASTLE-STREET, LIVERPOOL, have always on SALE PIG-IRON, KAILWAY RARS, CHAIRS, and IRON of every description.—TIN PLATES, WILL ASTREET, LIVERPOOL, The No. 100 Miles of the STREET, and IRON of every description.—TIN PLATES, WILL ASTREET, LIVERPOOL, The No. 100 Miles of the STREET, and IRON of every description.—TIN PLATES, WILL ASTREET, a

LIVERPOOL, have always on SALE PIG-180N. ALIWAY BARS, CHARS, and IRON of every description.—TIN PLATES, WHILE SCALE ALIWAY BARS, CHARS, and IRON of every description.—TIN PLATES, WHILE SCALE ALIWAY BARS, CHARS, JOHN HARVEY, SHAREBRAYER AND ASSAYER, LISERGRAY COLWALL.

JAMES LANE, MINING CHAR EBROKER, LONDON.

ANGLO-MEXICAN MINT OFFIEL & Broad-street-buildings, Nov. 23, 1846.—Notice is hereby given, that he DIVIDEND, declared on the 6th of May, will be PAYABLE at this office daily, on the after Wedmonday, the 2d of December next.—Claims to be made three clear days previous to payment—printed forms of which may be obtained at the office. Hours of attendance, Eleven to Three.

UNITED HILLS MINING COLUMN —Notice is hereby given, that the SCRIPHOLDERS of the company, No. 3, Adami-court, Broad-street, their SCRIP SHARES, and PAY the sum of 22 10s. for each new share allotted to them, on or before the 13th day of December next, otherwise they will forest their right to have such new shares. Every shareholder will be entitled to one new share for every four acrip shares so deposited and pald upon. By order of the board.

Nov. 12, 1846.

The resolutions referred to appeared in the Distance August Mining Fine GREARE See MACHINERY and AKLES of every description.—108EPH PERGVAL'S IMPROVED ANTI-FRICTION of Reads is —see trials on measing and sales of overy kind where constant friction is kept up—admitted to be the most useful, economical, and heat proparation of the kind ever offered to the public.

Beforement to delegate the most useful, economical, and heat proparation of the kind ever offered to the public.

Blackfriere-road, Lexidor.

UNIVERSAL GAS BURNER—THIRTY TO FIFTY PER
Sets. The advantages resulting from the invention are various and striking. Independently of a saving of 30 to 80 per cent., the combustion is perfect, and the brilliancy producedsuperior to any light initiation discovered. Is comis neither smell nor smoke, and burns steadily for any period; and such is its purity, that it neither smell nor smoke, and burns steadily for any period; and such is its purity, that it neither smell nor smoke, and burns teadily for any period; and such is the purity, that it neither smell nor smoke, and burns deadling, bouces, to the expense of strings, to its destruction of furniture, draperies, gold moulding, &c.; these are entirely obviated by the PATENT UNIVERSAL GAS BURNER. As the cost of laying on gas is much lower than is commonly supposed, it is adapted for private dwellings, as well as for club-houses, botels, manufactories, and public buildings. One of the small burners is amply smicent to light a good-sized room, at a sum immeasure oly lower than spirit, oil, or candle, with the avoidance of waste or trouble.

The merits of the "Burner," its brilliancy and economy surpassing every other known light, are shown by the annexed authentic opinions of the qualities of the UNIVERSAL GAS BURNER.

GAS BURNER.

EXTRACT from the "Proceedings of the Institution of Civil Engineers," Tuesday, May 26
1846—Sir John Rennie, president, in the chair.

"A gas burner, of a novel and ingenious construction, was exhibited. The principal novelty was the introduction of a stream of air to the centre of the flame by a hollow button in the middle of the burner. The air prasing up through the hollow stem of the botton, was heated, and passed out by two series of fig-holes around the periphery, and impligate with force on the flame of the gas curved figuriaxed in the shape of a tulip, while the oxygen of the air, mingling with the carburated hydrogen gas, produced a very perfect combustion. The flame cas qualte while down bride they of the burner—was very steady, as was amply demonstrated the excellent light of the institution, where these burners have been used. In comparing the consumption of these burners with that of the concentric ring burners, and trying the power of the two lights by the photometer, the new burner gave a better light, with a saving of rather more than one-third.

CRETIFICATE

urner gave a better light, with a saving of rather more than one-third.

POLTTECHRIC CHEMICAL SCHOOL.—"In testing Clark, McNeil, and Co's Universal Gas burner with one of the best shadowiess burners, if gave a more pure and brilliant light, with saving of 20 to 25 per cent."

"In a series of experiments made upon Clark, McNeil, and Co.'s Patent Universal Gas lurner, its superiority was satisfactorily established in economy and the quality of the ght; tested against argand burners, Nos. 4 (12 holes), and 6 (15 holes), it afforded a saving of at least 25 per cent,, and against three fish-tails burners, No. 4, 40 per cent. The solur and building of the flame is superior to any other burner."

T. W. Kratts, Consuling Chemist, J. D. Palmer, Mechanical Inspector.

T. W. KEATES, COMBINES is used rightly at the Polytechnic Institution, and may be had and seen from 11 till 4, at the patentees, 60, St. Martin's-lane Charing Cross, and of all gas fitters in London.

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FINE HOW BE BEWING UTENSILS.—It has only to be dissolved in hot-water and fermented.—Sold, in jars, for medicinal and other purposes, at is, and is, 6d.; and in bottles for brewing 5 to 18 gallons and upwards of ale, at 6s. 6d. and 12s. 6d. each, by the

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Capy of a Letter from "COLONEL HAWKER" (the well-knew author on "GUNS")

To which is added, MEDICAL OPINIONS relative to the virtues of malt and hops.

Copy of a Letter from "COLONEL HAWKER" (the weak-hope author on "GUNS AND SHOOTING")

Longbarish House, near with surch, Hants, Oct. 21, 1846.

Sra,—I cannot resist informing you of the extraordinary effect that I have experience by taking only a few of your LOZENGES. I had a cough, for several weeks, that defe ill that had been prescribed for ms; and yet I got completely rid of it by taking about alf a small box of your Lozenges which I find are the only ones that relieve the congrithent deranging the stomach of digestive organs.—I am, Sir, your humble servant, To Mr. Keating, &c., 79, 81. Auth Churchy ard.

F. HAWKER.

T. FATUNC'S, COLUGIA I OCCENNOSING.

EATING'S COUGH LOZENGES are PATRONISED also

by his Majesty the King of Prussia, his Majesty the King of Hanover, andmost of the fobility and Clergy of the United Kingdom, and are especially recommended by the Faculty. RECENT TESTIMONIAL.

DEAR SIS,—Having been, for a considerable time during the winter, afflicted with a dolent cough, particularly at lying dawn in bed, which continued for several hours in-essantly, and after trying many nedicines without the slightest effect, I was induced to ry your Lozenges; and, by taking about half a box of them, in less than 24 hours, the ough entirely left me, and I have been perfectly free from it ever since.

9, Claremont-terrace, Pentonville, I am, dear Sir, yours, very respectfully, Feb. 17, 1845.

Mr. KEATMO.

(Late proprieter of the Chanter Coffee-house, St Paul's,)

The communication must be seen as a constraint of the above agents.

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Part I. of this work is addressed to those who are provented from forming a matrimonial alliance, and will be found an available introduction to the means of perfect and seeret restoration to manhood.—Part II, treats upon those forms of diseases, either in their primary or secondary state, grising from infection—showing how numbers neglect to obtain compotent medical sid, chitall upon themselves years of misery and suffering.

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The CORDIAL SALM OF STRIAGUM is a summant and renovator in all cases of con-ditutional or acquired debility; by its use the whole system becomes restored to a healthy tate of organisation. Sold in bottles, price 11s. and 33s.

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"The author of this singular and talented work is a legally qualified medical man, who has evidently had considerable experience in the treatment of the various disorders, arising from the follies and frailties if early indiscretion. The engrayings are an invaluable addition, by demonstrating the consequences of excesses, which must act as a salutary warning to youth and makerity, and by its perusal, many questions may be satisfactorily replied by the authors and may be had at his residence; also from S. Gilbert, 32, Patarroosar-tev's Hamay and Co., &c., Grafted-street; Starie, 83, Tichborn-estreet, Quadrent, Gordon, J.46, Leadouhall-street, London; Newton, 16, Church-street, Liverpool; and all booksellers.

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GREEN'S PATENT FUEL ECONOMISER AND STEAM GENERATOR.

GREEN'S PATENT FUEL ECONO

The advantage claimed for the apparatus by its inventor are—that

"the food—water is first filtered, and then heated by the space heat from

the belief filtes to 'beliffing heat,' and a considerable quantity of steam

generated before it enters the boiler—thereby effecting a saving of about

one-third of the fuel: that is to say, one-third more steam is generated

with the same boiler and same quantity of facl." The apparatus can be

spipled either to new or old boilers. We extract the following de
scription from the enrolled specification:—"My invention consists of a

applying to useful purposes, the residual heat of the air or gases pass
ing from the flues of steam-boilers, or other boilers and furnaces, or of

either, after such heated air or gases have, in ordinary cases, cased to

chambers, hereinafter called piegs a series of separate pipes, tubes, or

chambers, hereinafter called piegs placed vertically, connected at the

chambers, hereinafter called piegs placed vertically, onnected at the

vertical pipes, water, or other liquids, are caused to rise slowly and gra
dually upward; while, at the same time, the heated air and gases, pass
ing, or baving passed, from the flue or flues of boilers or furnaces, are

made to circulate transversely through the spaces or compartments be
tered and around the pipes, and to remain sufficiently long in contact

with them to impart to the water, or other liquid, contained in and

passing through the pipes, so made of the surplus or ordinarily wasted general flow of the water, or liquid, in contact with the

pipes continually ascending as they become heated, and other and colder

portions succeeding; whiles, at the same time, any particles of steam

that may be generated during the ascent, escape upwards, not only with
out impeding the general flow of the water, or liquid, to be heated flows, and

with which the whole of the pipes with which also they com
"Secondly—Of an apparatus of cisters, form a reservoir of the heater of stea

ated air and gases."

DESCRIPTION OF THE ENGRAVINGS.

A, portion of boiler.

G G, cisterns at the bottom of heating pipes e e, containing the feed-

before it is heated

rater before it is heated. b b, feed pipes to the lower cisterns, G. G. B, feed pipe for conveying the water, after being heated, to the boiler. f f, spaces, or compartments, between the heating pipes, through which

ANNOTATIONS ON IRON.

Iron is the most useful of all metals; it enters into every branch of the arts of civilization and there are few departments of science in which its presence is not necessary. When we contemplate such articles as the plough, the anchor, the lancet, and the watch spring, we are forcibly impressed with the wondrous resources it affords, and with its inestimable value. "Were the use of iron lost among us," says Locke, "we should in a few ages be unavoisably reduced to the want and ignorance of the ancient eavage Americans;" yet is this valuable metal, which is consential to our wants, derived from very ungainly materials, and requires more than any other, the exercise of human ingenuity. In Britani it contributes largely to the mission is property, and may be said to constitute the basis of its staple manufactures. The methods of its manufacture, from ore into pig-iron, and from the latter into wrought, are so well known as not to require any description here, the object of the following paragraphs being simply the collation of some leading data of practical utility, to which the growing use of this material for constructive purposes imparts increasing importance.

Pig-iron may be divided into six sorts or qualities—viz: foundry iron, Nos. 1 and 2, dark gray iron, bright iron, motited iron, and white iron. The first is so soft as to yield to the chisel, is very fluid when melted, and will fill the most delicate moulds; it is, three-fore, used for small, ornamental, and superior work, where accuracy and nicety are wanted this iron contains much carbon. The second is harder, closer in the grain, less fluid when melted, and autitable for a heavier description of work: it contains less carbon than the proceeding. The third, containing still less of foreign matter, is autitable either for the foundry or for the manufacture of malleable iron; for castings, and are, consequently, the more confined to the manufacture of wrought-from. The last, containing the least carbon of all, is totally unfit for

be used therein, and that the fronmaster's invotes shall be forthcoming, if required.

For beams, and other bearing purposes, cast-iron, possessing a considerable degree of malleability, is to be recommended, since that property lessens the risk of sudden failure; and, as a general rule, that is to be esteemed the best for all purposes where strength is required; which sustains the greatest degree of fiexure without taking a permanent set; and also, of course, which supports the greatest load. The most flexible iron is sufficiently stiff, and it is the worst and most bettle which.

ment, or the effects of incention, and those painth affects and also, per bettles also &c case.

PERRY PURIFYING SPECHEC FULLS are perfectly free from mercury, capativa, and other deleterious drugs, and may be taken with safety without interference with or loss of time from business and may be rolled upon in every incance. Sold in boxes, and other deleterious drugs, and may be taken with safety without interference with or loss of time from business and may be rolled upon in every instance. Sold in boxes. Sold in boxes. Sold in boxes. The most free free deleterious drugs, and may be taken with safety without interference with or loss of time from business and may be relied upon in every instance. Sold in boxes. Sold in boxes. Sold in boxes. Sold in the state of the first of

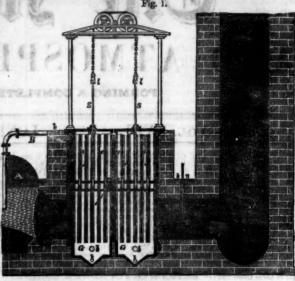
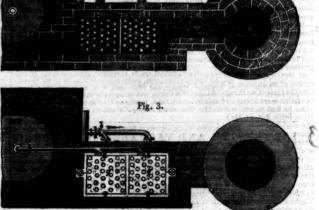


Fig. 2.



the heated air and gases circulate around the pipes.

i, plug pipe, for drawing off sediment.
j, a division, to cause the heated air or gases to circulate more effectively.
k, the walls enclosing the space containing the heating pipes.
l, opening through which the heated air is admitted from the boiler flues into the spaces between and around the heating pipes.
m, is the opening by which the air and gases escape into the chimney.
n, damper for regulating the draught.
o o, the scrapers for cleaning away the soot.
p p, the boiler flues.
q, cistern above the heating pipes.—[From the Mechanics' Magazine.

o o, the scrapers for cleaning away the soot.

p p, the boiler flues.

q, cistern above the heating pipes.—[From the Mechanics' Magazine,
q, cistern above the heating pipes.—[From the Mechanics' Magazine,
q, cistern above the heating pipes.—[From the Mechanics' Magazine,
which are not discoverable by this means; great care should be taken to prevent defects of
this kind, and the more time that can be allowed for castings to cool, the better—the from
being tougher when cooled slowly than rapidly, and derricking much the amen advantage
grees to the solid state, to afford the particles more facility for adjusting thomselves,
and thus to equalise, if no incurrable, the tension produced by the shrinkage in cooling,
This is the more necessary when the parts of castings are of unequal thickness; for when
the cooling in such cases is rapid and unequal,, their solitips is table to to impaired; and
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drive been and I the print the print the print that two y made liams' pits earlier they made respectively and the print part of experience when i Jure

THE AWFUL MINE EXPLOSION AT OLDBURY.

We have already entered very fully into the particulars of this dreadful calamity; but, as the investigation proceeds, it increases in interest, and the verdict of the jury gives the case an importance which was not anticipated: we, consequently, shall give the main points elicited during the several investigations before the coroner, that they may be referred to when the ulterior proceedings are before the public:

the verdict of the jury gives the case an importance which was not anticipated: we consequently, shall give the main points elicited during the several investigations before the coroner, that they may be referred to when the ulterior proceedings are before the public:—

FIRST LAGGEST.

Herder Hampfon (father of two of the deceased).—Had for some time worked at the pit in which the explosion took place, but that he was not in it on the morning of the occurrence; he had seen Smith, the "doggy," try the pit with the safety-lamp repeatedly, and believed he always did it. Whenever he found such a quantity of fire-damp as would case danger, he always communicated; it to the men working in the pit; he had worked at the pit 21 months, and work to be pont the more than the pit in the pit and the pit in the point of the coronical seen and explosion. He had assisted to dam up old sides of work to be pont the more than the pit and the pit a

gas as in Mr. Parker's pit. The air headings in this part of the county are not carried far enough. Mr. Parker's pit was the worst in respect to air-heading I ever worked in. Is is better, in my opinion, to, have the air by gate-noads than by air-headings.

John Shaw.—I worked at Mr. Parker's pit about one year and three-quarters, and left about three months ago. I have been a miner all my life. I left the pit on account of the fire-damp, which made me unwell, existing. I complained to every man in the pit about it. I told Holland, the butty, that I should be obliged to leave the pit, and that it wanted ventilation. I recollect the pit firing one morning, and two men were burned. I have worked in a pit five or six years, during which time no explosion had taken place. I believe, if every spout was properly secured in the pit, there would be air sufficient to keep the fire-damp back. I assisted on Tucsday in getting up the dead bodies. Mr. Silas Elwell (mine surveyor).—By the directions of this inquest I have examined Mr. Parker's pit this morning. I have made a sketch of the workings, which I now produce. I latched to a point where the air was carried across a gate-road by an air trow, at about 40 yards distance from the bottom. That air is carried across to the other side of the gate-road. It is a very common thing to put in trows. They are used in all collieries, but my opinion is they are inefficient. This trow is about 1 ft. 9 in. square, and carries the whole of the air which passes into the work. The air-heading goes about 20 yards further, and then opens into it. The air-head is driven as those are in most collieries; and my opinion is, they are too narrow, and not so much space in them as there ought to be. In the second gateway, where the air passes by the shaft, there, is a straight stall of work goes up. There is no air-headings carried within 120 ft. of the back of the stall. The colliery has been worked as collieries; and my opinion is, they are too narrow, and not so much space in them as there ou

dict, that the deceased came by their death by burning, caused by the neglect of the ground bailiff, against whom they added a verdict of MANSLAUGHTER.

SECOND INQUEST.

CHARLES KENNEDY.—I went to work in the pit six years ago, and left two years ago. At that time Mr. Haines was ground bailiff. When I worked there last, I worked in a side of work at the furthest working, and the furthest from the shaft. Instead of the air blowing out, and being carried out, the air headway was 100 yards from the side of the place in which I worked. It was not driven sufficiently into the works. That air-way ought, in my opinion, to have been carried into the works. Idid not like the pit on account of the fire-damp, and I left it because I could mend myself in my work. But the fire-damp was the principal cause of my leaving. There had not been any air-heads driven into the works until they were full of fire-damp, while I was there. I worked in the pit three different times. I never made any complaints to Mr. Haines. S. Timmins and J. Stephens were the buttles who worked there, while I was employed in the works. Joseph Yates and Thomas Stokes, and two others, were butty colliers in the place also; and I complained to them all many a time that there was fire-damp in the pit. I have not been down in the pit the last two years. The new gate-road now pointed out to me upon the plan has been made since I left. I have worked in Mr. Underhill's pit and Mr. Philip Williams's pit since I left, and also in other pits. I have found fire-damp is all no ne part of the mine, the men have been at work in another; but it is a dangerous experiment to work anywhere. If the fire-damp is a thou of the pit, and not in another. It has been the case, that when fire-damp is in one part of the mine, the men have been at work in another; but it is a dangerous experiment to work anywhere. If the fire-damp is a two distinct sides of the pit they might, perhaps, work with asfety. I was twice burned in this pit of Mr. Parker's, and I was also burned, in Mr. W

-They said they would have an air-way driven up when permitted, and they

Juroz.—Was the air-head driven up?—Witness.—Yes, when they could not help it. Stokes was the last butty I complained to. When I was burned seri-ously, I was making the head-way.

Juror.—Was the air-head driven up?—Witness.—Yes, when they could not help it. Stokes was the last butty I complained to. When I was burned seriously, I was making the head-way.

Mr. J. O. BRITTER, of Dudley (mine surveyor).—On Friday last I, in company with Mr. Yardley and Mr. Silas Elvell, west down into Mr. Parker's pit. I found the blowing gate-road full of fire-damp. The drawing gate full of sulphurous gas. The doors of the gate were broken. I could not make an inspection of the pit then, in consequence of the choke-damp, but requested Mr. Haines to have the dams properly secured, and the air-heads cleared. I went down yesterday with Mr. Yardley, Mr. Elwell, and Mr. Haines, and the pit was then in a state to enable me to make an inspection of it. We examined the pit from one end to the other in every place, and only found fire-damp in one place—and that was a small portion in a spout in the gate-road, and not in the work. I found the gate-roads and general state of the pit as if an accident had occurred. The gate-roads were driven in the usual way in which they are driven in this neighbourhood. There was a side of work, with proper air to expel fire-damp. The gate-roads were driven so as to carry a strictent body of air into that side of work in operation, and expel the fire-damp, if any was there. This was the side of work in which the explosion took place. I attribute the explosion to one side of work not having been properly ventilated. In my judgment there should have been a pair of doors at the top of the new gate-road, and the air-head continued along the boundary on that side of the work, and up to the crop. I consider the place where the men were at work sufficiently ventilated. It was the duty of the butty to give notice of anything wrong. If the butty discovered anything wrong in the pit, that there was fire-damp, he ought to give notice to the ground bailiff and the butty to see that the doors and the sir-head were made. It was the duty of the butty would know if it was necessary to have such doo

12 ft. to 3 ft.

1. YABLEY (mine agent and ground balliff).—I have the management of several pit is neighbourhood. I accompanied the last witness in the survey of the coal-pit, which e subject of this inquiry. I have heard him examined, and I quite concur in the evien he has given. I have known Holland, the butty, and considered him a very caresteady, prudent man. I think he would not have run any risk, if he had seen any rer. On Tuesday and Friday, I discovered that the atmosphere had an effect upon the causing the gases to collect. It does not affect so much in south-east as in south-erly winds.

Westerly winds.

James Stanfield (butty collier), employed in Capt. Bennet's pit, deposed, that, on used morning last, the men could not work in his employer's pit, owing to the bad air aused by the atmosphere.

The Coroner then caused the whole of the evidence to be read over, and commented pon it—observing, that he saw no grounds for attaching blame to any person.

The jury deliberated for an hour; and, at half-past six o'clock, returned the following erdict:—We find a verdict of "accidental death," but beg to express our opinion, that here has been neglect, and which is to be attributed to the ground bailiff, for the impercie ventilation of the works.

THIRD INQUEST.

The evidence adduced varied but very little from that before taken, and the Coroner as unuming up the case, expressed a strong opinion that a charge of manslaughter could be supported against the ground build.—The jury then returned a verdict of "actional death," but at the same time censured Mr. Haines, the ground bailiff, on account the imperfect ventilation of the pit.

Two other inquests were held, but the evidence was merely a repetition of the foregoing.

In the Bail Court, on Wednesday, Mr. Whitmore obtained a rule to admi Mr. Haines, the ground bailiff (who had been taken into custody after the verdict of manslaughter), to bail.

ACCIDENTS IN MINES-PUBLIC MEETING.

On Monday last, a large meeting of colliers and other working men was held in Dudley, on the subject of the late dreadful mine accident at Round's-green, the particulars of which were detailed in our last Journal. A collier, who was voted by the meeting to be the chairman, spoke at considerable length on the oppressive and hurried labour to which the men are exposed.

Mr. Samuel Cook then addressed the people on the causes of mine disasters, which he considered to be occasioned by various causes—the want of better architecture in constructing the pits, the want of proper ventilation, too erect cuttings, the negligence of engineers, bad ropes, bad sacafolding, bad safety lamps, and negligence in the use of the Davy lamps, and the gas in them. He considered that there was a responsibility for the accidents which so frequently happen resting upon the mine owners, bailiffs, butties, doggies, and the men themselves. He considered that these accidents were not necessarily and inevitably connected with coal-getting—that God had not necessarily connected the one with the other. He thought that the gas might be carried to the surface and returned to the pit again, to light it with. He proposed a memorial to Sir George Grey, requesting that the Government would introduce a measure on the subject into Parliament, immediately on its assembling; and for Government to send down to investigate the late case, and to appoint mine inspectors. Several collers spoke of imminent danger in the mines, and that this chiefly arose from the want of spending more money upon them.

The following memorial was agreed to:—

Hemarkial. Mr. SAMUEL COOK then addressed the people on the causes of mine disaste

Memorial.

The respectful memorial of the inhabitants of Dudley, and neighbourhood, in public meeting assembled, Nov. 23, 1846, to Sir George Grey, Secretary of State for the Home Department,

Showeth,—That your memorialists, from a solemn regard to the interests of humanity, deem it a duty the most serious and imperative to submit, for your consideration, the following lamentable facts, with the full confidence that you will forthwith devise some legislative measure to prevent, as far as human means can, a calamity of such frequent occurrence in the mining districts:—

On Tuesday morning, the 17th inst., an explosion of gas occurred in a coal mine, the property of Mr. Parker, situated at Round's-green, where 25 miners were employed, which caused the instant death of 19 men, in the most borrid manner by which human life could be destroyed. Three of the others were so seriously burned that one has since died, and another is scarcely expected to survive: 14 of the sufferers were married, and have left 14 wives and children, who were entirely dependant on the men's labour. The destitute condition and misfortune to which these families are thus exposed must commend then to the commisseration of every humane mind, and render it a most solemn obligation on the part of Government to avert consequences of so fearful a nature. Your memorialists would, therefore, implore your serious consideration of the preceding facts. That the Government will view such calamities with indifference, we cannot for a moment suppose; and though your memorialists may lament that the Legislature has not heretofore, from various causes, adopted some comprehensive measure to afford better protection to life in the perilous occupation of mining, either by offering a sufficient encouragement for the discovery and effective process of ventilating mines, or by the appointment of efficiently qualified inspectors, to see that the means for this purpose now in practice are properly carried out, still your memorialists trust that the present administrative Gove

Government will feet the responsibility of calling the attention of the Legislature to this important subject immediately upon the meeting of Parliament. Your memorialists cannot but feel assured that you will concur in the necessity and propriety of such a step, and the more especially as your honourable predecessor, Sir J. Graham, in a communication of reply to a letter from Mr. S. Cook, of Dudley, relating to a similar accident, which occurred in a coal mine at Twedale, near Dudley, in the month of August, 1845, stated that the subject was under the consideration of the Cabinet, and appointed Mr. Playfair to investigate the circumstance of the accident referred to: which inquiry, your memorialists regret to say, was abruptly broken off, in consequence of Mr. Playfair's being called to Ireland to investigate the cause of the failure of the potato crop. Your memorialists would, in conclusion, urgently pray that you will at once appoint a commission of inquiry to investigate the cause herein stated; for the twofold p urpose of satisfying the public mind, and supplying further evidence to aid the Government in maturing the measures sought for in this memorial, and which the personal safety of an important and laborious class of workmen imperatively requires.—Your memorialists, &c. &c.

CAUTION TO MINE ENGINEERS.—On Tuesday last, at the Bilston Police Court, B. Fletcher came before the bench, in answer to a summons charging him with having neglected the service of Mr. W. Shales, by which he had done considerable damage. It appeared that, on Monday last, the defendant was employed in working an engine to raise water from a neighbouring pit belonging to the prosecutor: during the night he fell asleep, and the engine ceased pumping, which caused the pit to make so much water, that the men could not work. The defendant was ordered to pay 1.1., and costs; but from the good character he had always borne, the complainant consented to take him back into his service.

DIED,—On the 6th inst., at Bromford Iron-Works, West Bromwich, where he had resided upwards of 60 years, Mr. John Downing, in the 91st year of his age. His death, we regret to say, was occasioned by a severe accident to his leg.

MINERAL RESOURCES OF THE SAMBRE AND MEUSE.

Mosers. Sopwith and Smith, civil engineers, have just reported on the mineralogical capabilities of the district entre Sambre and Mouse, showing the existing condition and prospective value of the coal mines in that part of Belgium, producing, upon calculation, a quantity equal to one-chenth of all the coal raised in Great Britain, and upon the apparently exhaustless deposits of Iron ors, more particular with reference to the iron mines at Couvin, and the favourable opening presented for the introduction of trading enterprise. Mr. Sepwith states, in the progress of his survey, he was much impressed with the comparatively inactive state of this, and other works of a similar description; and on inquiry, found that the tide of prosperity, which might reasonably have been anticipated from such a concurrence of favourable conditions, had been checked by adverse circumstances, arising from the revolution in 1880, and the subsequent commercial embarrassments in 1888 and 1889, which are well known to have caused so much loss and interruption throughout the whole of the industrial establishments of Belgium. From these great and ruinous causes of depression many of these works never revived—others in time began slowly, and under great disadvantages, to resume operations; but at the period of his first survey, the effects produced, by the evident send of copinal were as apparent on visiting such works, as if the very words had been legibly inscribed in weary part of the premises. It is, however, but just to add that they are now almost without exception doing well. The Couvin Iron-Works had a further disadvantage to contend with, by reason of the distance from the coal-field of Charlerol, and by the expense attending the carriage of materials of every description. Its comparatively sociuled position naturally relaxed it is progress. Considered as remained up to this time in comparatively included the coal-field of the saving remained up to this time in comparatively included the coal-field of the progress. Considered as a Messrs. Sopwith and Smith, civil engineers, have just reported on the mi-neralogical capabilities of the district entre Sambre and Meuse, showing the ex-isting condition and prospective value of the coal mines in that part of Belgium,

and the rivulet Du Prince, which run through the property, furnish a vast amount of water power.

The beds of limestone in the immediate contiguity of the works contain vast deposits of iron ore, in pockets or funnel-shaped cavities, the quality of which is superior to any produced in Belgium, and their proximity to the surface admits of their being worked with great facility. The same description of ores are also occasionally found in veins throughout the district.

These deposits of iron ore extend upwards of 70 miles in an east and west direction. Towards the western extremity, near the villages of Forge and Boulers, masses of plastic clay are found, from which the best fire-bricks are made. The principal deposits of iron ore which are now being worked, are situated at Couvin, and extended to Petigny, Mismes, Olloy, Dourbes, and Vierve, on the east, and to Peaches, Boileux, Boulers, &c., on the west. The mines to the eastward abound in the stronger quality of ores; those to the west are less refractory, and mix well with the others,

We shall return to this subject in our next Journal.

MINING IN AUSTRALIA.

At a time when so many of the labouring population of the mining counties of Cornwall and Devon are emigrating to that "land of promise"—South Australia—the following interesting communication, which has been just received from the colony, will be read with much interest: the letter, which is dated Adelaide, 17th June, was written by Mr. James Curnow, who left Cornwall for Adelaide in 1841, and addressed to his friend, Mr. William Allen of Bengareer.

personal these mints, various successes have been induct any see we are controlled in the personal knowledge, the state of the real extent of our mineral wealth. The greatest want now felt, is the scarcity of labour of every description, but more particularly of working miners. I can state, from personal knowledge, that tributes have been getting lately from 6l. to 20l. per week I and men that never saw a mine before, get 2l. per week. These wages are further enhanced by the low cost of provisions, and other necessaries of life. To give some idea to those unacquainted with the variety of productions which abound in this colony, I may enumerate the articles of wood, grain, gum, bark, whalebone, and oil, which, themselves, are enough to make this a prespectus community. I think I may say with truth, that such a concentration of the elements of wealth that we possess, is without precedent. The climate of South Australia is most healthy. The general opinion in England as regards the supply of rain, is very incorrect. The experience of 10 years shows that no real scarcity of water has been experienced during any one season. The hot winds which prevail during summer for a short time, are, I may say, the only drawback in this colony. Female servants' are much wanted—girls of good character are readily engaged at 20l. per ann.

Mossoiel Correr Ore.—The workmen at the tunnel at Mossgiel, near Mauchline, an account of which appeared in our last, have, within the last few days, discovered a rich vein of copper ore.—Ayr Adogsier.

days, discovered a rich vein of copper ore.—Ayr Adosticer.

SUBSTITUTE FOR SILVER.—The most perfect substitute for silver that we know of is gold.—Almanack of the Month.

CUBE OF DEODEY BY HOLLOWAY'S PILLS.—SEE angley, residing at Castle-court, Dublin, had been suffering from droppy for the last two years, during which period she had been tapped several times—no one thought the would get over is: however, by living upon solids, eating plenty of animal food, abstaining from the use of all vegetables, and by taking a course of Holloway's celebrated pills for about seven weeks, see is perfectly cured. Females at the turn of life, who frequently become dropused, would do well to take from time to time a little of this fine regenerating medicies, thereby specifity removing all dangerous symptoms attending this critical period.—Sold by all druggless, and at Professor Holloway's establishment, \$44, Strand, London.

Mining Courespondence.

ENGLISH MINES. ENGLISH MINES.

Since the period to which the paragraph in the last weeks a frong course, refers, when it was stated that the lode was upwards of 10 II. state we are informed that a further increase in the size, and improvement as the mality of the lode has taken place. The adit level has been driven nevaries of 90 fm. on a good productive lode, varying from 5 to 21 ft.

— the taken being the size mow in the eastern end, and worth 70L per fm. The engine shaft, which is sinking on the lode, is down 7 fms. under the adit; the lode here is about 5 ft. wide, and contains a good branch of copper ore; the eastern end is driven about 33 fms. from the shaft. The steam pumping engine of 60 in. cylinder is now ready to work; but the quantity of water in the shaft has been hitherto too small to render it necessary. A steam-whim, crusher, and stamps, are in course of erection. The next sampling is expected to exceed 200 tons.

to exceed 200 tons.

BARRISTOWN.—The lode in the 24 fm. level, west of engine-shaft, is still without alteration—poor. The lode in the 18 fm. level end, west of flat-rod shaft, is producing 1½ ton per fm. The 12 fm. level, west of flat-rod shaft, is producing 1 ton per fm; the adit end east is producing stones of ore. Nothing new at Clon Mines. The tribute pitches are looking well; I hope to have another cargo (45 tons) ready about the middle of December. We have been delayed a little in the 28 fm. level, owing to the flat-rods being too weak; we have been obliged to substantiate larger iron.—T. Angove: Nov. 20.

BEDIGORD UNITED —At Wheal Mayonia the lode in the 80 fm. level east.

have been obliged to substantiate larger iron.—T. ANGOVE: Nov. 20.

BEDFORD UNITED.—At Wheal Marquis, the lode in the 80 fm. level east is 18 in. wide, saving work. In the 70 fm. level east the lode is 2 ft. wide, composed of spar, mundic, and ore; the lode in Crew's winze, in this level, is 2 ft. wide, and worth 8t. per fm.; and in Michell's winze the lode is 18 in. wide, and worth 6t. per fm. The winze in the 58 fm. level having been holed to the 70 has enabled us to resume driving this level, and there has been no lode taken down. At Wheal Tavistock, in the 47 fm. level east and west the lode is 18 in. wide, producing a little saving work. In the 35 fm. level east the lode is 18 in. wide, composed of spar, mundic, and spots of copper ore in places. The south engine-shaft is 20 fms. 4 ft. 6 in. below the surface, the lode 6 ft. wide, gossan, spar, and ore, very kindly. There is no alteration in the adit level since last reported.—James Phillips: Nov. 24.

CUBERT SILVER LEAD.—There is nothing new to notice this week, dif-

reported.—Janus Phillips: Nov. 24.

CUBERT SILVER LEAD.—There is nothing new to notice this week, different to what I wrote you on the 14th inst.; I will, however, recapitulate: at the 25 fm. level, driving east on Trebiskin lode—at present it is small and unproductive; going west at this level the lode is 1 ft. wide, yielding stones of ore; the middle lode here is 2 ft. wide, chiefly hard spar, with mundic, and spotted with lead. At the 15 fm. level, driving west, on Trebiskin lode, it is 10 in. wide, and saving work; in the same level, going east, the lode is 1 ft. wide, worth about half a ton of lead per fm. The ground in the engine-shaft is much the same as it has been. The prospects, on the whole, in the tribute department, we consider fair.—RICHARD ROWE.

ment, we consider fair.—Richard Rowe.

EAST TAMAR CONSOLS.—At Whitson, the men in Hitchina's engineshaft are getting on very well in sinking. In the 54 fm. level north and south the lode is 2 ft. wide, fluor spar and good stones of silver-lead ores—a very kindly looking lode. In the 46 fm. level south the lode is 1 ft. wide, ground hard for driving, but we expect an improvement in this level very soon, as we are getting under the old workings that were made in the level above. At Furzehill, the shaftmen have completed the trip plat, and recommenced sinking; the lode in the shaft is 2 ft. wide—a very promising lode. In the 38 fm. level north and south we are opening ground that will set at a moderate tribute. In the 30 fm. level south the lode is 18 in. wide, good work; our great object now is to force down our engine-shaft with all possible dispatch, and open ground for the tributers.—B. Rours: Nov. 23.

GREAT MICHELI, CONSOLS.—The ground in the engine shaft withing

object now is to force down our engine-shaft with all possible dispatch, and open ground for the tributers.—B. Robins: Nov. 23.

GREAT MICHELL CONSOLS.—The ground in the engine-shaft, sinking below the 22 fm. level, is favourable; in the 22 fm. level, east of the engine-shaft, the lode is without important alteration, composed of gossan, and stones of ore in places; in the 22 fm. level west the lode continues, containing gossan, spar, mundic, and spots of copper ore.—T. Richards: Nov. 24.

GREAT WHEAL MARTHA.—We beg to inform you, that the new engine-shaft is sunk 26 fms. 5 ft. 6 in. below the deep adit level. A breakage of the balance rod provented the sumpmen working in the bottom of the shaft any part of this week, nevertheless the 30 will be reached quite as soon as we reported to you. Nothing has been done at Sherral's bottom since our last report, the men having been engaged in selecting the mundic, which is being carried to quay, and will be shipped as soon as the vessel arrives. A very promising lode having recently been discovered in the adjoining sett, we have this day visited the mine, and find the lode is running in our sett, a little to the south of Barnlight lode: we examined several other promising lodes; and, from their bearing and underlie, there is not the least doubt but that every one of them may be found in our ground, and two of them at no great distance from our present workings.—J. Prince; T. Penaluna: Nov. 21.

GUNNIS LAKE.—The lode in Bailey's engine-shaft is 3 ft. wide, composed of gossan and spar, with stones of ore in places. The lode in the 12 fm. level east is 2 ft. wide; and in the 12 fm. level west 2 ft. wide, producing a little saving work.—W. Richarders: Nov. 24.

HANSON.—Our sumpmen have finished the plat spoken of m my last, and have sum delay and the set of the plat spoken of m my last, and have sum and the content of the plat spoken of m my last, and

saving work.—W. Richards: Nov. 24.

HANSON.—Our sumpmen have finished the plat spoken of in my last, and have sunk about 3 ft. below the 22 fm. level. In flat-rod shaft, they have not taken down any of the lode, and could do no more with the water; and they are now employed in fixing the work to get a sett to work, which will be drawn by the engine; we hope it will be put in operation by the middle of this week. In the 32 fm. lovel east of engine-shaft, on Stainsby's lode; the lode is 3 ft. wide, with some ore. In the 32 fm. level, west of engine-shaft, the lode is 2½ ft. wide, mproductive. On the 17th inst., we sampled 32 tons of ore.—Z. WILLIAMS: November 23.

HAWKMOOR .- The lode in the 15 fm. level, east of Hitchins's shaft, ha The local in the 13 lin. level, east of Intenns's shart, has roved in appearance since my last, being upwards of $2\frac{1}{2}$ ft. wide, composed our and mundic, with fine stones of copper ore. I hope that, by another ktobe able to report something of a more pleasing character.—P. Kichards.

of spar and mundic, with fine stones of copper ore. I hope that, by another week to be able to report something of a more pleasing character.—P. KICHARDS. HOLMBUSH.—The shaftmen are still engaged in stoping down the piece of ground below the 110 fin. level, which is producing some very good ores. The lode in the 120 fin. level, west of the east cross-course, is 15 in. wide, and worth 20.2 per fin.; in the same level, driving east of Hitchins's, the lode is much the same as last reported on—we have suspended this end for the present, and set to drive north, to effect a communication with the other levels. In the 120 fin. level, west of the winze (on the north part), the lode is 10 in. wide, and worth 62 per fin., and is likewise suspended for a short time, and the mer set to drive south towards the other level, to effect a speedy communication. The lode in the rise, above the 110 fin. level (on the north part), is 10 in. wide, composed of mundic and stones of ore; the lode in the 110 fin. level, west of the lead lode, is 1 ft. wide, and worth 62 per fin.—we have not cut through the lead lode at this point, there being not sufficient for two pares of men to work at one time, until we fix air pipes in the level to convey it into the end, which we intend doing; the lode in the winze, sinking below the 110 fin. level, is 1 ft. wide, and worth 72 per fin.—The lode in the 100 fin. level south is 3 ft. wide, composed of flookan, spar, and occasionally stones of lead; the pitches, in the back of this level, are producing some very good lead ores, and the men making moderate wages in their tribute.—W. Lean: Nov. 24.

LOSTWITHHEL CONSOLS.—We continue to pass through floors of fine hard spar, interspersed with bright yellow mundic, which indicates a mineralised country, and that the lodes in the vicinity are strong and good. The water boils up freely from the bottom, at the rate of 100 barrels per eight hours. The shaft is down below the 12 fin. level.—J. Eustics: Nov. 24.

MENDIP HILLS.—The lode in Stainsby's shaft has gr

MENDIP HILLS.—The lode in Stainsby's shaft has greatly increased in size since my last report, it now being 7 ft. wide, consisting chiefly of quartz, with dark-coloured flookan, intermixed with particles of lead, presenting a very promising appearance: this shaft is sunk of fins. 2 ft. below the 138 fin. level. The stopes in the bottom of the 20 fm. level, north of Somers's shaft, continue to produce a little lead, but have very much failed during the past week.— F. C. Harpur: Nov. 23. F. C. HARPUR: Nov. 23.

PENTUAN WHEAL MARY.—We are driving into the hill, for the purpose of cutting the main lode, with all possible speed. The ground through which we are driving still holds out its former improved character, with great prospect of success.—J. Chynoweth: Nov. 24.

SOUTH TAMAR UNITED.—The masons are getting on with the buildings as fast as possible; the smith's shop is built, and they are getting on with the engine-house as fast as the weather will permit; there is no doubt that the house will be up in time for the machinery to heave m. We have also erected a whim on the adit shaft to clear the adit, which work is necessary to be done.

—B. Robins: Nov. 23.

TINGROUP.—V.

-B. Robins: Nov. 28.

TINGROFT.—We have cut a branch, containing good quality ore, in the 100 fm. level cross-cut south; we are continuing the cross-cut south, and hope to cut the other part of the lode in a short time. The lode in the 90 east is 8 ft. wide, producing good stones of ore, and kindly; we have not yet cut the lode beyond the cross-course, in the 90 west, but must be very near the lode, as the water is drained down from the winze sinking below the 80. The lode in the 80 east is 23 ft. wide, and worth 155 per fm; one of the pitches in the bottom of the 80 has very much improved in the last few days. The lode in the 70 east is large, producing tinstuff; the rise in the back of the 70 west, and the winze in the bottom of the 60, are producing some ore. Our tribute department continues much the same as for some time past. Palmer's shaft is nearly complete to the 80 fm. level; we shall soon be driving west at that level. The lode in the 70 west is 24 ft. wide, and worth 100, per fm.; the pitches in this part of the mine continue to produce fair quality that fift—equally good as last reported. We are getting on vary well cleaning Wheal Providence adit; we are driving towards the lode

from the new shaft, at the adut level. On the whole, our prospects continue very

cheering; we expect to sell 11000, worth of tin next Wednesday—three weeks and one day from our last sale.—W. PAUL: Nov. 28.

TAMAR SILVER-LEAD.—In the 160 fm. level the lode is 18 in. wide, composed of capel, with spots of ore. The 145 fm. level is in slidy ground, and unproductive. In the 135 fm. level the lode is 2 ft. wide—work of a coarse quality. In the 125 fm. level the lode is 2 ft. wide, 1 ft. of which is rich work, and of a promising character. In the 105 fm. level, the lode is 15 in. wide, producing a small quantity of ore. In the 145 fm. level, north of the shaft, there has been no lode taken down since last reported. The inclined pland shaft is sunk 19 fms. below the 115 fm. level. At the north mine, in the engine-shaft, the lode is 4 ft. wide, composed of capel, with strings of mundic. In the 60 fm. level, north of the shaft, the lode is 3\frac{1}{2} ft. wide, producing good stones of ore. At Wheal Hancock we are still cross-cutting towards the lode; the ground is composed of killas, with strings of mundic, of a congenial appearance for silver-lead ores.—J. SpraGules: Nov. 23.

TRELEIGH CONSOLS.—In Christoe's shaft, below the 100 fm. level, the

of mundic, of a congenial appearance for silver lead ores.—J. SPRAGUE: Nov. 23.

TRELEIGH CONSOLS.—In Christoe's shaft, below the 100 fm. level, the men are fixing lift, nothing sunk; in the 100 fm. level, east of ditto, the lode is about 1 ft. wide, and we are driving north in search of more lode; in the 100 fm. level, west of ditto, the branch is small, no mineral. Garden's shaft, below the 90 fm. level, west of ditto, the lode is 3½ ft. wide, worth 35L per fm. In the 90 fm. level, west of ditto, the lode is 20 in. wide, more kindly, producing good stones of ore. In the winze, below the 70 fm. level west, the lode is 18 in. wide, not much ore; in the 70 fm. level, west of Good Fortune, the lode is 3ft. wide, inthe ore; we are driving north to find more lode. In the 60 fm. level, west of Symons's, the lode is 18 in. wide, worth 3L per fm. In the 50 fm. level west, on the north lode, the lode is 1 ft. wide, generally in flookan, no mineral. In the 44, west of ditto, the lode is 10 in. wide, producing a small quantity of ore. The adit cross-cut is driving south to the western shaft.—W. Symons: Nov. 21.

The adit cross-cut is driving south to the western shaft.—W. Symons: Nov. 21.

TREVISKEY and BARRIER.—At Treviskey, in the 176 fm. level, 17 fmseast of the shaft, the lode is small and unproductive. In the 200 fm. level, 16 fms. east of the shaft, the lode is 2 ft. big, and worth 12½ per fm. The men hitherto employed in driving this level, are now sinking a winze close to the end in the 200, and are down about 9 ft.—the lode here is worth 40½ per fm. The men belonging to the 212 fm. level, are now sinking a winze 18 fms. east of the shaft, and are down about 4½ fms.—the lode here is unproductive. In the shaft, sinking 8 fms. below the 224 fm. level, the lode is 3 ft. big, and worth 40½ per fm. In the 236 fm. level, 4 ft. east of the shaft, the lode is 4 ft. big, and worth 40½ per fm.—the men belonging to the 236 are now rising against the shaft; the lode in the rise is worth 40½ per fm. We sampled last week 226 tons of ore, and expect to sample for November and December about 230 tons. At Barrier, in the winze sinking 11 fms. below the 236 fm. level, the lode is 18 in. big, and producing stones of ore. From this winze and our three pitches, we expect to raise about 90 tons of ore for November and December months. We sampled last week 100 tons.—Joseph Jennings: Nov. 16.—[We gave the accounts presented at the meeting on the 16th, in last Journal.]

UNITED HILLS.—In the 90 fm. level, eastern end, the lode is 3½ ft. wide,

accounts presented at the meeting on the 16th, in last Journal.]

UNITED HILLS.—In the 90 fm. level, eastern end, the lode is 3\frac{1}{2}\text{ ft. wide, producing a small quantity of ore; in the western end the lode is 3\frac{1}{2}\text{ ft. wide, 2\text{ ft. ore of good quality; in the eastern stopes the lode is 2\frac{1}{2}\text{ ft. ore of good quality. In the 80 fm. level, eastern end, the lode is 3\frac{1}{2}\text{ ft. wide, 20 in. ore of good quality. In the 80 fm. level, eastern end, the lode is 3\frac{1}{2}\text{ ft. wide, 1\text{ ft. ore of fair quality; improved since last reported; no alteration in the cross-cut. In the 70 fm. level, eastern end, the lode is 18 in. wide, 1\text{ ft. ore of average quality; in driving north we have cut the south part of the lode, which is yielding some stones of ore; in the eastern shaft the lode is 4\text{ ft. wide, 2\text{ ft. ore of good quality. In the 60 fm. level the lode is 3\text{ ft. wide, producing ore throughout of average quality. In the shallow adit the lode is 3\text{ ft. wide, poor. At Wheal Charles, in the 50 fm. level the lode is 2\text{ ft. wide, coarse in quality. In the 40 fm. level the 10\text{ ft. wide, vearse in quality. In the 40 fm. level, the lode is 2\text{ ft. wide, ore of average quality. In the 30 fm. level the lode is 2\text{ ft. wide, producing but a small quantity of ore. In Turner's shaft the lode is 3\text{ ft. wide, 2\text{ ft. wide, producing but a small quantity of ore. In Turner's shaft the lode is 3\text{ ft. wide, 2\text{ ft. wide, producing but a small quantity of ore. In Turner's shaft the lode is 3\text{ ft. wide, 2\text{ ft. wide, producing but a small quantity of ore. In Turner's shaft the lode is 3\text{ ft. wide, 2\text{ ft. wide, producing but a small quantity of ore. In Turner's shaft the lode is 3\text{ ft. wide, 2\text{ ft. wide, producing but a small quantity of ore. In Turner's shaft the lode is 3\text{ ft. wide, producing but a small quantity of ore. In Turner's shaft the lode is 3\text{ ft. wide, producing but

VICTORIA.—During the past week, our men have been engaged in making leats, &c.; I beg to inform you, that we have commenced operations to the fullest extent as far as it is thought practicable for the present. We have set the wheel to build, and, in the meantime, preparation will be made for the engine to be set to work on the first Wednesday in January, 1847; by virtue of which, it is my opinion that large returns of tin will be made, when we get our shaft down to the 12 fm. level.—J. Chynoweth: Nov. 24.

we get our shaft down to the 12 fm. level.—J. Chynoweth: Nov. 24.

WEST SHEPHER DS.—We are at present driving only two ends—one at the 12 fm. level, east of engine-shaft; the other at the 20 fm. level, west of ditto. The end at the 12 fm. level is in an improving condition; the lode is from 2 to 3 ft. wide, carrying with it a small leader, producing some good stones of lead; we expect to see a much greater improvement in this end very shortly, as we are getting very near a north and south lode, which runs through the sett. The end at the 20 fm. level is in a state of progressive improvement; the lode varies from 1 to 2 ft. wide, carrying with it a leader from 2 to 3 in. wide, producing some excellent stones of silver-lead ores. The stratum of ground around the lode is much more favourable than it has ever been before at this level. We hope in about two months to come in contact with the course of ores gone down in the bottom of the 12 fm. level. Altogether, the mine is in a very promising condition.—T. HOOPER: Nov. 24.

WEST WHEAL JEWEL.—In the 115 fm. level, east of Hay's cross-course.

In a very promising condition.—T. HOOPER: Nov. 24.

WEST WHEAL JEWEL.—In the 115 fm. level, east of Hay's cross-course, on Wheal Jewel lode, the lode is 15 in. wide, with more ore than when last taken down. In the 100 fm. level east, on same lode, the lode is 18 in. wide, with a more promising appearance than when last taken down, worth 41, per fm. In the 85 fm. cross-cut south the ground is very favourable for driving, and we hope in another month to cut the south lode. In the 12 fm. level, west of Quarry shaft, on Tolcarne tin lode, the lode is 15 in. wide, and worth 121, per fm.; in the 12 fm. level, west of Old sump shaft, on same lode, the lode is 9 in. wide, worth 41, per fm.; in the winze, in the bottom of the 12 fm. level, west of Quarry shaft, on same lode, the lode is worth 121, per fm. In the winze, in the bottom of deep adit, west of Quarry shaft, on same lode, the lode is worth 121, per fm. In the winze, in the bottom of deep adit, west of Quarry shaft, on same lode, the lode is 20 in. wide, worth 201, per fm.—R. Johns: Nov. 28.

WEST WHEAL MARIA—The eastern whim-shaft, is down the death of

WEST WHEAL MARIA.—The eastern whim-shaft, is down the depth of 26 fms. 3 ft.; the lode in the shaft is about 6 ft. wide, producing good stones of ore. We have dropped the lift in the engine-shaft, this day, to the 34 fm. level.—T. Rodda: Nov. 24.

ore. We have dropped the lift in the engine-shaft, this day, to the 34 fm. level.—T. RODDA: Nov. 24.

WHEAL ADAMS.—The 50 fm. level, driving south on the Gastorn lode, is a little improved; we expect to meet with the dip of the bunch gone down in the bottom of the 40 at the point of horse. We have cut a lot of water in the end, which makes us think we are approaching the 50 fm. level. Driving south, the western silver-lead lode is not looking so well as last week for lead, but more brown jack in it. The rise, in the back of the 50 fm. level, on the western silver-lead lode, is much the same as last week. The 40 fm. level, driving north on the western silver-lead lode, is not looking so well for lead—there is a quantity of brown jack in the lode; the tribute pitches, in the back of the 40, on the western lode, working at 2s. 6d. in the 11—much the same as last week, the tributers are mostly getting wages. Since last week we have cut a very good branch of lead in the 28 fm. level, on the eastern lode, about 35 fms. south of the old engine-shaft; we set a pitch on tribute at 12s. in the 11, and 15s. per fm., to cut the lode—we find this will encourage the tributers to try whole ground, and to lay open the mine—they have driven a little more than 3 fms. to cut this lode; we had two objects in view—to cut the lode, and to open tribute ground, and for air. We have now to drive south on the lode from the cross-cut, about 4 fms., to hole to the old level, where we have copper. We have two more tributers down about 7 fms. under the 28 fm. level in the old engine-shaft, driving to cut the eastern lode, at 12s. in the 11. Me 20s. per fm.; if we cut a good here it will be an important thing for the mine. We have found the silver lead lode branches on the 18 fm. cross-cut. We set the slimes last week to a man and two boys to dress, at 12s. in the 11. We think we shall be able to dress for the market this month about 20 tons of lead, and about 100 tons of brown jack, and could do more, if our dressing floors were larger; we

we are making new floors, which we hope to complete in a few days.—T. MOYLE.
WHEAL CONCORD.—Since my last there is no material alteration in any
of our levels, or other places, then ineutioned. Where we have begun to explore the back of the 28 fms. levels, a little west from the engine shaft, the lode
is 25 feet wide; and although not rich at present, there will be some returns
made from it. We have discovered, in the back of the 20, about 20 fms. east
from the engine-shaft, a lode from 1 to 2 ft. wide, from which we are saving
good work, and report says there is a good lode beyond us. Upon the whole,
our prospects may be considered favourable; and I shall continue to exert myself to develope the resources of the mine in the most economical and judicious
manner.—J. B. CLYMO: Nov. 21.
WHEAL LOUISA.—The exercise sheft is down 10 fms. 2.6. the ground

WHEAL LOUISA.—The engine-shaft is down 19 fms. 2 ft., the ground through which we are sinking is much the same as last reported; in the adit and south, the ground through which we are driving, is still looking well; we are progressing favourably.—J. CHYNOWETH: Nov. 24.

WHEAL NORRIS.—I beg to inform you, that we have continued working on the main lode in the 35 fm. level, which has improved far beyond our utmost expectations; it having now become an extremely fine lode of copper, computed worth from 30t. to 40t, per fm. It looks very healthy, and I shall give you more particulars next week.—J. CLYMO.

WHEAL FRANCES.—In the 40 fm. level, west of new shaft, worth about 40l. per fm. In the 50 fm. level, worth from 25l. to 30l. per fm. In the 94 fm. level, worth 5l. per fm. In the 82 fm. level, worth about 5l. per fm. In the back of the 50 fm. level, set at 45s. per fm. worth 150l. per fm. In the back of the 40 fm. level, set at a tribute of 1s.—Nov. 10.

WHEAL TRELAWNEY.-The lode in the 42 fm. level, north of the shaft, WHEAL TRELAWNEY.—The lode in the 42 fm. level, north of the shaft, is 4 ft. wide, and worth 181. per fm.; in the same level south it is 2 ft. wide, and worth 201. per fm. The lode in the 32 fm. level south is 2 ft. wide, and worth 251. per fm.; in the same level north it is very much improved since the last report, being now 2 ft. wide, and worth 161. per fm. The lode in the 22 fm. level north is suspended, being near the boundary of the sett; the lode in the unize sinking under this level is 2 ft. wide, and worth 121 per fm. The lode in the 12 fm. level north is 3 ft. wide, and worth 31. per fm. The lode in the 12 fm. level north is 3 ft. wide, and worth 31. per fm. The lode in the 12 fm. shaft is 29 fms. below the surface, in very favourable ground. We are also progressing very satisfactorily with our 22 fm. cross-cut, and hope to communicate with the above shaft in about three weeks. Our engineers are getting on very well with heaving in the engine. We sampled, on Friday last, a parcel of ore, computed 121 tons.—P. CLYMO, Jun.: Nov. 24.

FOREIGN MINES.

FOREIGN MINES.

NATIONAL BRAZILIAN MINES.—Cocaes, Nov. 23.—I informed you, in my last report, that I had placed some hands to commence sinking on the jacotings in the bottom of the cross-cut, at the foot of Terril's winze, or the cross-cut marked C C, in the small plan: we have sunk at the place in question about 8 ft.; and I have no doubt but the samples, which I have handed you (the commissioner) from the jacotings during the past week, will be exceedingly encouraging to all interested.—J. HITCHINS.

ST. JOHN DEL REY.—Morro Velho, Sept. 8.—Of the Morro Velho produce, 11,086 outs. are from 2877 tons of ore, equal to 3.852 oits, per ton; and 137 are from the old coffers of the Lyons' stamps. The standard appears very low, which is attributed to the large quantity of killas broken in the Middle and West Cachoeira. Considering the stoppage of 15 heads of the Lyons' stamps during 10 full days, and other 15 heads during at least one day, in order to facilitate the repair, the quantity of ore stamped must be considered large. Mr. Smith estimates that, since the new 15 heads have been at work, the whole 30 heads have stamped 16 per cent. more than usual—that is, the new heads have improved their work 32 per cent. The pillar in the United Mines is complete, and the report shows that very fair progress has been made with the works in hand. A pillar is now commenced between the Middle and West Cachoeira, which will take some months to complete. Now, that the repairs to the Lyons' stamps are complete, the principal works during the next 12 months will be for the mine—first, the pumping wheel; these things will occupy, with other works falling in, nearly 12 months. If they succeed in making the hauling wheel haul the ore to grass as well as pump, the heavy expenditure, on account of whim animals, will be entirely cut off, and ease us evidently in management. Cost for August, rs. 28,393 131 = 31591.

Sept. 18.—Heads working during 18 days, 69 06; the supply of ore has been well maintained during nearly the whole of the mon

CRAIG-DDU SLATE COMPANY .- The slate quarry, for the working of which his company has been formed, is situated at Festinoig, in Merionethshire; the ease extending over 205 acres of land, at t he merely nominal rental of 80% per annum, and a royalty of one-tenth on the slates raised. The vein has been traced in breadth for 400 yards, and is probably much wider; the over burthen is unusually light—good slabs being obtained at 20 ft. from surface, and splitting slates a slittle below. There is water-power at hand; and from the peculiar situation of the quarry, with proper management, it cannot be flooded: there are good roads to the shipping port, seven miles distance: a railroad is constructing within two miles; an engine and machinery of great power, with 6000 ft. of railroad, office, three cottages, and every necessary appliances, already on the premises, have been obtained on advantageous terms,—and the company will thus be enabled to commence profitable working, while the necessary additional buildings are being erected. The capital is proposed to be 150,000. but it is estimated that only, at most, two-fifths of this sum will be required to bring the quarry into a high state of production. The slate of this quarry is said to be equal to any in Wales; and considering, as we have on previous occasions remarked, that the supply of good slate is at present totally inadequate to the demand—for the numerous uses to which it has, within the last few years, been, for the first time, applied, particularly in the beautiful and perfect resemblance to the finest time, applied, particularly in the beautiful and perfect resemblance to the finest marbles which can be imparted to it,—and its consequent employment in the most elegant ornamental works, for the drawing-room, &c.—besides an extensive variety of domestic uses, too numerous to mention—it is pretty certain that, carried out with spirit and judicious economy, these works will prove highly profitable to those who embark their capital in them.

Wheal Curris.—The promoters of this undertaking, though perfectly well per annum, and a royalty of one-tenth on the slates raised. The vein has been

WHEAL CURTIS.-The promoters of this undertaking, though perfectly well atisfied themselves of the promising nature of the mine from previous reports, extracts from which we have given on former occasions—determined on obtaining an additional one from an experinced and impartial agent, and, accordingly, authorised Capt. Richards to inspect the mine, and report thereon. dingly, authorised Capt. Richards to inspect the mine, and report thereon. The following are his remarks:—I now find that an engine-house is being built for a 70-in. cylinder engine, and also that a new engine-staft is being sunk to cut Wheal Curtis lode, at the 90 fm. level; and that all other buildings are in a forward state, or nearly completed; and that Crase's shaft is cutting down to drain the old mine by a rod from the engine, until the new engine-shaft is sunk to a proper depth to do so: I think all this very proper, and judiciously laid out; and that the agents have adopted a very prudent step, in purchasing the materials from the sales that may offer at other mines, which may be required to put this mine in a proper state of working, by which a considerable saving will be effected. In conclusion, I have to observe, that this mine is situated in a good mining district, and is well worthy the attention of capitalists who might be disposed to speculate in Cornish mines.

[FROM CORBESPONDENTS.]

BIRCH TOR.—The 50 fm. level east is just as it has been for the last 10 days, a good course of ore. The 62 fm. level, in the bottom, is worth 12L per fathom for driving, and is the best looking lode which has been seen in the mine, improving in quality every foot driven.

CONDURROW.—A considerable improvement has taken place in the bottom level, going east on the old lode, which is composed principally of rich grey ore; and in the winze, sinking from the deep adit to the 10 fm. level, there is a rich lode of yellow ore on the Llandower lode. These discoveries have caused an inquiry for shares at advanced prices.

an inquiry for shares at advanced prices.

EAST WHEAL KITTY.—The lode is at present poor in the end, but we have commenced sinking a winze on a promising bunch of copper ore, about 8 or 9 fms. from the present end, and we hope something encouraging will result.

GREAT RESUGGA.—Considerable speculation has taken place in this mine, and the price of shares has experienced the consequent fluctuation: the sett, as we are informed is generally considered a promising undertaking; and we should be glad to receive a detailed report, from the agent, of the present state of her workings.

EXECUTE: WHEAT VIOLENCE The lode here because in the sett of the present state of her workings.

PLYMOUTH WHEAL YEOLAND.—The lode here has much improved with the

of her workings.

PLYMOUTH WHRAL YEOLAND,—The lode here has much improved with the last few days—the same being now estimated worth 20L per fm. for tin.

SOUTH HARVANAH.—The operations in this mine, which were all but discontinued during the summer and autumn months, for want of water, have lately been renewed with increased vigour, and with most flattering results to the shareholders. In the middle of last month a lode, 3 ft. wide, was discovered in the 10 fm. level, producing tin of the very highest quality, in which they are now driving. In a few days the water will be forsked to the 20 fm. level, where, there is no doubt, the same will be discovered, and, it is hoped and believed, of still greater value. From the eastern stopes a considerable quantity of rich stuff is being taken—so valuable, indeed, that the men put it in bags before bringing it to the surface. Although defraying the expenses of last month, 60L were paid into the Devonport Bank to the credit of the mine: altogether it has never looked so well; and, in a few months, a sum will be in hand, either to pay a dividend, or to purchase a steam-engine. The present spirited committee of management deserve much at the hands of the shareholders, as much of the success is attributable to them; their last act has been to direct their solicitor to proceed against all whose cails are not paid up—if this were done, there would be a considerable sum in hand.

WHEAL FRANCO.—The next general meeting will be held in about three

WHEAL FRANCO.—The next general meeting will be held in about three weeks, when it is presumed, that the accounts will show a profit of from 100\(lambda\). The third will be shortly after increased by returns from the old halvans, &c., from the adoption of Brunton's patent frames, and a decrease of surface cost, to the extent of from 40\(lambda\). To 50\(lambda\) per month.

WHEAL CALSTOCK .- This mine bids fair to do much; there are several branches containing ore of an excellent quality, running into a large gossan lode, which stands about 2 fins, to the south of the end of the cross-cut in the shallow adit, which is 24 fms. from the surface.

shallow adit, which is 24 fms. from the surface.

WHEAL TREHANE.—The shaft is now completed to the 30 fm. level, the lode here, as well as in the winze, in course of sinking from the 20 to the 30, producing good stones of lead; they have also commenced driving both north and south on a good lode; the north end of the 20 fm. level, now driving, has been for some time poor, but has much improved, being further from the slide, which was passed through in driving; the lode in the bottom level is nearly perpendicular, having scarcely any underlie—consequently, they will have a greater depth of the lode in the set than was at first calculated. They are also in course of conveying the ores to the wateraide, preparatory to sampling next week, when they calculate on selling 30 tons.

GREAT SWANDOW, MINE—A company is about heirs formed, to resume the

GREAT SWANFOOL MINE.—A company is about being formed, to resume the working of this mine, situate about a mile from Falmouth, in the parish of Budock. The prospectus represents the mine as "full of mineral productions"—lead, silver, tin, copper, iron pyrites, and zinc. About 50 years ago, large quantities of lead, very rich, were brought to surface. It is estimated that a

capital of 8840. will be fully sufficient to carry out every operation required to bring the mine into a prosperous state. A meeting of parties interested in it, took place, at Lenderyon's Kinga Arms, when a provisional committee was formed, and immediate measures will be taken to bring the matter more immediately before the public. A war hing of this description in the neighbour-hood of the town, would tend a surfielly to relieve the burdens of it, and all the adjoining parishes; and we sinterely trust that the proprietors will meet with that encouragement to which their apristed exertions entitle them, and which, from the surveys which have been made at various periods, appear likely. The mine has never as yet been worked with efficient machinery, and, therefore, a fair trial has not been given.—Cornwall Gazette.

ASTURIAN MINING COMPANY.

A special general meeting of the shareholders in this company was held at the offices of the company, Austinfriars, on Monday, the 23d inst.,

GIDEON COLQUHOUN, Esq., in the chair.

The advertisement and circular convening the meeting having been read, the following report of the directors, with extracts from the correspondence of Mr. J. Manby, the superintendent of the company in the Asturias, and the balance-sheet, were submitted to the meeting.

ence of Mr. J. Manby, the superintendent of the company in the Assarias, and the balance-sheet, were submitted to the meeting.

REPORT.

The objects in view in calling this special meeting are so clearly stated in the advertisement, that few remarks will be necessary in further explanation. The reports, which will now be read, are of so much importance, that it was an act of justice to the shareholders, as well as the directors, to submit the whole for their information. It will be recollected that, in a previous report, dated June, 1845, it was stated that Capt. Matthews had valued the Cinnabar ore exposed at 4000l. This was so much sneered at and disputed, that your directors did not venture to lay out your money in ascertaining the fact: for this neglect they now blame themselves. It was not till Capt. Matthews was about to retire from the service of the company (having finished his engagement), that he requested, in justice to himself, that M. Paillette, a well-known mineralogist, and the inspector of mines, should be called in with our superintendent, Mr. J. Manby, to inspect and report on the value of the ore in store, and of the mine itself. Our superintendent was thus unwillingly convinced of the real importance of our possessions. The opinions expressed by Capt. Matthews (who is now in the room, and ready to answer any question that may be put to him) are, the directors have much satisfaction in stating, fully supported by corroborative testimony. Making every allowance for the sanguine hopes which have dictated the above reports, in regard to the future produce, it is clear that we have got a stock of cinnabar of considerable value—far more than sufficient to compensate for the time and expenditure hitherto consumed in prosecuting the several operations of the company; and we may expect, by June

which have dictated the above reports, in regard to the future produce, it is clear that we have got a stock of cinnabar of considerable value—far more than sufficient to compensate for the time and expenditure hitherto consumed in prosecuting the several operations of the company; and we may expect, by June next, to be able to announce a handsome dividend to the shareholders from this source alone, independent of the produce of Santo Firmé Colliery, our coke contract, and the iron-works: from this latter we cannot expect much for the first six menths; but when we consider that we shall be able to make iron cheaper than can be produced in England, and that the current local price is more than double, it cannot be doubted that a large profit will be obtained. We are now paying 25t. a ton for assorted iron, for our own purposes there, to complete the works. We have sent out retorts and fire-bricks, to enable Mr. Manby to erect the necessary apparatus for distilling the mercury. The total expense of this will not be above 600t, and the apparatus will be available for the future produce of the mine.

The cost of this mine, up to the present day, is exactly 2700t, including the price paid for the concession; and, from the reports received by the directors, we may hereafter hope that the expense of working it may be reduced, with reference to the value of the produce extracted from it.

It has been a subject of discussion at the board, how the Cinnabar Mine can be worked most to the advantage of the company. There can be no doubt, with the prospects held out, as well as the results which have been already realised, that the best plan would be, to work the mine with energy, although a handsome sum might be obtained for its disposal, which, however, in the opinion of the directors, would not be a politic course. We trust, if the result of the first year's distillation of the ore from the mine enable us to pay a dividend of 20 per cent, on the full amount paid up, for the prosecution of the several works, the directors

scheme could be carried out, it would, no doubt, enhance the value of the shares in this company; but the state of the money market at present is unfavourable for any new company to start.

In regard to the iron-works, it is satisfactory to know that the principal expense is incurred, and that a dividend may safely be expected therefrom. The blast-engine was tried, and found to work admirably; the blast-furnace will be in operation in the present month.

The last point to be laid before the meeting, is the disposal of the shares which remain unappropriated. It was a matter of some doubt, whether the regulations of the Commercial Code of Spania admitted of a sale of these at less than par; and, in order to clear up this doubt, we directed our superintendent to take the opinion of a Spanish lawyer. This we now lay before the meeting, and it satisfies us that they may be sold at the market price. This would, no doubt, relieve the directors of considerable responsibility; but, on the other hand, it would have a bad effect, were so many shares forced on the market: many of our largest shareholders strongly recommend, therefore, that all the said shares should be cancelled, and the total number reduced from 15,000 to 11,400. This would add one-fourth to the value of the present shares, as it would increase the dividend to be expected next year upon each share. This is a very important question, and the decision on it must depend upon the financial position of the company.

The list of shares upon which the last call has not been paid is now on the table. It is larger than we expected; but we have no doubt that the greater part will be paid up in time to avoid forfeiture, which is always most unwillingly resorted to. But it is a duty we owe to the large proportion of our shareholders, to take care that all contribute equally to the success of the undertaking. If those who do not pay the calls are to share equally with those who do, the consequence will be, that few will attend to the call.

| , the commentation with the property | | | | | |
|--|------|-----|---------|----|-----|
| Balance-Sheet. | | | | | |
| Dr.—Capital paid up£63,08 | 5 10 | 4 | | | |
| Loans 11,77 | 2 10 | 3 | | | |
| Sundries 3 | 0 10 | 11- | £74,883 | 11 | 6 |
| CuExpenses in forming the company £ 1,44 | 0 17 | 8 | 1115 | - | |
| Railway to the coast-surveys, &c 2,49 | 5 19 | 9 | | | |
| Purchase of Santo Firmé Colliery 8,98 | 0 4 | 5 | | | |
| | 0 0 | 0 | | | |
| Works (iron) and machinery 51,76 | 6 8 | 3 | | | |
| | 5 7 | 8- | £69,668 | 17 | 9 |
| Shares purchased £ 35 | 0 0 | 0 | | | |
| | 6 13 | 0 | | | |
| | 2 6 | 8 | | | |
| | 0 14 | 1- | 5,219 | 13 | 9 |
| Woda! | | | 674 000 | 11 | - 6 |

From a statement drawn up by Capt. Matthews, confirmed by the reports of M. Paillette, and the Government Inspector of Mines, of the produce of or M. Pallette, and the deverance inspector of Miles, of the produce of ore (cinnabar) raised up to the present time, it appeared that the total quantity was 5584 quintals, yielding, in the aggregate, 587½ quintals of mercury, or, on the average, about 9½ produce, which, valued at \$82 per quintal—the present price of mercury in Spain—would give 94711. The following is a list of the several parcels, and the produce of each:—

| uintals of | Ore. | | | | | | Prod | uce. | | | Q | u | int | als | of Mercury | y. |
|------------|--------|------|-------|----|-----|---|------|---------|------|------|------|---|-----|-----|------------|----|
| 365 | | | | | | | 11 | p. cent | | | | | | | 40 | |
| | | | | | | | 4 | | | | | | | | 183 | |
| . 327 | | | | | | | 63 | ** | | | | | | | 206 | |
| 54 | | | | | | | 40 | *** | | | | | | | 21 | |
| 54 | | | | | | | 9 | 99 | | | | | | | 5 | |
| 111 | 0.0,00 | | | | | | . 52 | . ,, | | | | | | | 574 | |
| 97 | | | | | | | . 77 | 11 | | | | | | | 74 | |
| 5584 | | | A | ve | rry | m | 91 | | | | | | | | 5874 | |

The samples were taken in presence of M. Paillette and Mr. J. Manby, at the instance of Capt. Matthews, and transmitted to the directors, with the view of confirming the statements made by that gentleman of the value of

From the statements made to the meeting by Capt. Matthews, it would appear that the ore in sight, and which has been explored in the course of the workings, and remaining untouched, is equal to five times the quantity raised—thus giving a produce equal to 47,000l. It should, however, be observed that Mr. Manby estimates the ore raised at 6 per cent. average produce, or 5000l, and calculates that some 12,000l. or 15,000l. worth has observed that Ar. Manny termes that some 12,000l. or 15,000l. worth has been discovered. M. Paillette's estimate is 10 per cent.—which, taking the value of the ore at 1434 rs. 13 m. per quintal, would give about 8000l. The opinion of M. P. is, in a great measure, confirmatory of that entertained by Capt. Matthews, as regards the ore discovered, which he sets down as from four to five times the quantity raised; while the Government inspector entertains a more sanguine opinion.

From the correspondence of Mr. J. Manby, C.E., read to the meeting, it appeared that the opinions formed by that gentleman, on subject of the

appeared that the opinions formed by that gentleman, on subject of the Eugenia (cinnabar) Mine, had undergone a complete change; for, while he doubted the outlay (27001) ever being returned, and had, indeed, considered such as an actual loss incurred by the company, he, in his late

correspondence (the last advices being under date the 8th inst.), however, admits not only that he erred in judgment, but that the ore raised was worth, at least, 5000L, and that 12,000L to 15,000L had been laid open; while he impresses on the directors the importance of sending out retorts, and other appliances, so as to reduce the ore—the cost of which he estimates at 500L to 600L, whereby the ore now at surface may be converted—the proceeds of which would be available for a dividend, to be declared at the next analysis of the cost of the cost of the cost of the cost of the converted—the proceeds of which would be available for a dividend, to be declared at the next analysis. or which would be available for a dividence, to be declared at the ne nual meeting; from which source alone could any be calculated up asmuch that, although the blast furnace for smelting iron would asmuch that, athough the blast furnace for smelting iron would be in operation in the course of a month, yet it would require some time to clapse ere profits would be realised, or could be fairly expected. With reference to the prices at which materials could be furnished to the works, it appeared that the cost of iron ore was 52, per ton; timestone, 22, per ton; and coke, 33, to 43, per ton. As respected the question which had been submitted for the opinion of coursel in Spain, it appeared that the opinion there entertained was at variance with that held by the English barristers, in assumed that it was considered been to discover of the numerous interest.

and coke, 3s. to 4s. per ton. As respected the question which had been submitted for the opinion of counsel in Spain, it appeared that the opinion there entertained was at variance with that held by the English barristers, inasmuch that it was considered legal to dispose of the unappropriated shares at a diminished price, should the company think fit to do so.

The correspondence, of which the above is a brief epitome, with the report and accounts, having been read,—the Chairman congratulated the shareholders on the accession to the value of the property possessed by them—in the results and prospects held out by the Eugenia Mine. It was true, as the report indeed stated, that the directors had been somewhat lukewarm, and had not acted with that energy and spirit, which the report of their agent (Capt. Matthews) could have warranted them in doing, who, so late back as June, 1845, had valued the ores in sight at 4000t,—but, with the opinion expressed by Mr. Manby, their superintendent, the directors deemed it expedient to husband their resources, or rather apply them to the iron-works. The result, however, although the end might have been delayed, was highly gratifying, and must be hailed with satisfaction by all interested, as it held out the prospect of an early dividend, at the same time that a valuable property had been secured at a comparatively trifling outlay,—the whole amount expended on this portion of the company's property being only 2700t; while, as the meeting had heard, the value of the ore already raised was estimated at upwards of 9000l. He might observe, en passant, that the ore met with a ready sale at a fixed price, which, at the present moment, was \$82 per quintal—the Government inspector, had pronounced it as his opinion that it was second only to the mines of Almaden. There were two questions before the proprietors, who had been specially called together to receive these cheering statements, to which he begged to draw their particular attention—the one was, providing funds for the progressiv

appeared, that no royalty on the quicksilver ores was payable to Government. With reference to the coal tracts possessed by the company, the Chairman further stated, that the Peninsular and Oriental Steam Navigation Company, with others, would readily take it—while the Government would also take a large quantity of coke.

Mr. Scale, in observing on the coal-fields possessed by the company, stated that, if a railway was constructed to the coast, he had no hesitation in saying, that the company could not only compete with English coal, but would beat them out of the market on the continent to the south. The but would beat them out of the market on the continent to the south. The coal was of a superior quality for the purposes of coke, which latter could be produced at 4s, to 5s, per ton. The distance from the colliery to the coast was 37 miles, which was the great drawback. As much as 30s, per ton was paid for coal in the south of Spain, which was raised by the company at a cost not exceeding 2s. 6d. per ton. An offer had been made to lease Santo Firmé Colliery at 2000/. per annum, but which was, of course, disrecerted by the disrectors.

to lease Sante Firmé Colliery at 2000t. per annum, but which was, of course, disregarded by the directors.

Mr. KNILL (a director) expressed his perfect confidence in the undertaking, and the prospects held out of a dividend being declared at their next annual meeting. The specimens of ore that day submitted, must be highly satisfactory of the rich produce yielded by the mine—while the estimates submitted to them, and the information conveyed by Capt. Matthews, left not a doubt on the mind of the directors of the value of the property they had secured at so comparatively low a cost in bringing it to its present state.—A desultory conversation ensued, in the course of which Mr. Heming, Capt. O. H. Matthews, and others, took part, when the several resolutions, which will be found in our advertising columns, having been passed. utions, which will be found in our advertising columns, having been passed, and thanks voted to the chairman, the meeting adjourned.

TRETOIL MINING COMPANY.

The quarterly meeting of the adventurers was held at the offices, in George-yard, Lombard-street, on Thursday last, the 26th inst.

George-yard, Lombard-street, on Thursday last, the 26th inst.

R. Thomas, Esq., in the chair.

Mr. Henry Thomas (the secretary) read the advertisement convening the meeting, and the minutes of the last meeting, which were confirmed; he then read the following—REPORT.

The directors beg to authouit the following report from the mine, which gives full particulars respecting the operations; and it is matter of regret to them, that it is not yet in their power to report so satisfactory a progress as was expected:—

Tretoil, Not. 21.—Since the last meeting, on the 25th August, we have not made that progress in sinking Henwood's shaft which we expected; the ground has been more hard than formerly, and our operations have been somewhat retarded, in consequence of the bursting of the tube of one of the bollers, which has been reported. The shaft is now down 11 ms. 2ft. below the 70 fm. level; we have finished casing and dividing, and commenced cutting plat, diving, &c., preparatory to sinking below that level; the lot in the shaft is 16 in. wide, producing some ore, but not rich; the ground is not so hard, and our speed in sinking will much increase; we have to drive east at this level about 8 fms., before we get under the ore ground gone down in the bottom of the 70; it cannot be done at present until the bottom level drains the water. We have suspended the 70 west for some time past, in consequence of 4fts being poor; it is a sufficient distance from Henwood's shaft to ventilate the 80 for several months, and can be driven again when needed. In the 60 west, the lode has been amall and poor for several fms. The 70 east, which we are driving as fast as possible, has been a productive level for the last 15 fms.; the lode at present is 15 in. wide, opening ground that will set at a moderate tribute; this end is near the cross-course, and we have every reason to expect a good level here; there is a risegoing up in the back of this level, near the end, which is nearly holed to a winze coming down from the 60; the lode in t

or rebruary, 1847, and we hope ere that to have improvements in other parts of the mine.

H. Williams.

With respect to the statement of accounts, it will be seen that, out of the sum due on the sixth instalment, at the time of the last meeting, 4100, only has been received, leaving 2511, 10s, due thereon; and that, of the call of 5s, per share then made, 4210, only asy et had been paid—the amount due on this call of 5s, per share then made, 4210, only asy et had been paid—the amount due on this call of 1s, per share then made, 4210, only asy et had been paid—the amount of the sether and the disposable materials, East Treetol engine, &c., estimated at 3501, still remains unsold. With such a deficiency in the contemplated receipts, it has not been possible to reduce the liabilities; and, consequently, the creditors of the company are pressing much for the settlement of their respective claims, most of which are of long standing. It is obvious that, unless the calls are more promptly paid, continuance of the working the mine is impracticable, and the main object for which the present powerful machinery has been creeted, and so much expense incurred, will remain unseen. The operations of the mine have been steadily directed to the important objects purposed—viz.: to cut the Mine Park lode, to deepen the workings on the Silde Park lode, and to prove Johns's lode—the result to this period being clearly pointed out in Capt. Williams's report. It will be necessary for the shareholders to give the affa irs their serious consideration, and to determine accordingly.

From the statement of accounts, it appeared that the balance last ac-

From the statement of accounts, it appeared that the balance last account was 2263*l*. 1s. 7d.; cost for June, July, and August, 1463*l*. 7s. 6d.—together, 3726*l*. 9s. 1d. Ores sold, 714*l*. 11s.; calls, 831*l*.—1545*l*. 11s.:

showing balance against the mine, 2180l. 18s. 1d.

showing balance against the mine, 2180l. 18s. 1d.

The report and accounts were unanimously adopted.

The Chairman then said, that having submitted the above reports, and a statement of accounts, the principal business now before them was a consideration of the state of their finances, and the arrears of calls, which amounted to 921l. It was exceedingly unfair to those shareholders who paid their calls, that the working of the mine should be delayed, by parties refusing or neglecting to pay. It appeared that the directors were already responsible to a very large amount; large claims were now coming in upon them, and they had no funds to meet them. One large shareholder, in Cornwall, was in arrear 75l. 10s. on the last call, and 152l. 10s. on former calls—making 228l.; and although the directors had done all in their power to obtain payment, they could get no settlement; they had

even drawn upon him, but he had not returned the bill; and this was the less excusable, as that gentleman knew the difficulties of a parser's duties, and the uncertainty and expense of mining. A list of the defaulters was laid on the table, and it appeared the unanimous wish of the meeting that coercive measures be immediately adopted to compol their payment. After some conversation, in which Messrs. Cope, Len, and Heall, joined a resolution was passed, empowering the directors to enforce the payment of the calls due, in any manner they may deem best for the interests of the company. It will be seen that, estimating the materials to be sold at 350L, if the calls were paid up, the balance against the company, which appears above at 2180L 18s. 1d., would be reduced to 909L A call of 5s. per share was then made, having been proposed by Mr. Lea, and seconded by Mr. Heall; and a vote of thanks having been passed to the chairman, the meeting broke up.

above at 2180l. 18s. 1d., would be reduced to 909l. A call of 5s. per share was then made, having been proposed by Mr. Lea, and seconded by Mr. Heall; and a vote of thanks having been passed to the chairman, the meeting broke up.

Caradon Mining Company.—A meeting of adventurers was held at Listeard, on Wednesday, the 18th inst., when the following statement of accounts was presented and passed:—By 10th call, 2l. per share, 512l.; materials, not received, 20l. 5s.—54ll. 5s. The arrears are, on 8th call, 4l.; 9th call, 17l.; 10th call, 126l.—147l.—To balance end of Aug., 33l. 8s. 4d.; labour cost, Sept., 138l. 17s. 9d.; ditto, October, 179l. 14s. 8d.; materials, 82l. 5s. 11d.—464l. 6s. 8d.; showing present balance in favour of the mine, 8d. 18s. 4d.—A call of 30s. per 256th share was made, payable immediately at the Devon and Cornwall Bank, Liskeard.—The following report, from Capt. Samuel Secombe, was read to the meeting:—I beg to lay before you a report of the operations and prospects of this mine. The engine-shaft is sunk 6 fms. 5 ft. below the 35 fm. level. The sumpmen, since the last meeting, have been employed three weeks in making the necessary alterations in the pitwork, dividing shaft, patting in penthouse, ladders, &c. This has very much lessened the quantity of ground that would otherwise have been sunk; the cross-course appears to be getting more regular than it has been for several fathoms, and the ground is improving. The present price given for sinking is 24l. per fm.; but, from the improving appearance of the cross-course, it will be much less when the present contract expires, which is on the 27th inst. There are nine sumpmen employed; and, at the next setting, it is intended to put on three winze, or tackle, men, to facilitate, as much as possible, the sinking of the shaft to the 50 fm. level. The cross-cout, at the 35 fm. level, where opened on near the surface, there is about 1 fm. more to drive in this cross-cut to intersect it. From the very promising character of this lode, where laid open

are in course of making for dressing, and we are preparing ore for the market: we have several tons of good ore already at surface.

TRESAVEAN.—At a two-monthly meeting, held at the mine, on the 24th inst., the statement of accounts was examined and passed. The labour cost for Sept. and Oct. was 28291.7s. 5d.; bills, 9161. 16s. 8d.: together, 37461.4s. 1d. Ores sold (less lord's dues), 34951. 15s.; sundry materials do., 1901. 2s. 6d.: together, 36851. 17s. 6d.;—showing a loss of 601. 6s. 8d., which, deducted from balance of last account (10171.8s. 1d.), leaves balance at banker's of 9561. 16s. 5d.

TRETHELLAN.—At a two-monthly meeting, held at the mine, the 24th inst., the starement of accounts was examined and passed:—The labour cost for Sept. and Oct. was 3801. 15s. 1d.; bills, 1141. Is. 5d.: together 4941. 16s. 6.—Ores sold, less dues, 7791. 11s.; West Tretheham adventurers, 1871. 10s. 10d.—together, 9671. 1s. 10d.: showing profit of 4721. 5s. 4d., to which add balance of last account, 6601. 4s. 11d., gives balance of 11821. 10s. 3d., from which deduct dividend of 51. per 120th share, leaves balance of 5321. 10s. 3d.

WHEAL ANDREW AND NANGILES.—At a two-monthly meeting, held on the 16th inst., the statement of accounts was examined and passed, from which it appeared, that the balance from last account was 5251. 10s. 10d.; cost for Sept. and Oct., 8471. 14s. 0d.; merchants' bills, 4571. 4s. 8d.: together, 1890. 9s. 6d. Division of cost last account, 2l. 4s. 8d. per 1-235th share, 5241. 16s. 8d.; ores cold, 6201. 13s. 11d.: together, 11451. 10s. 7d.—showing balance due purser, 6841. 18s. 11d.—It was resolved that a call of 3l. be made payable forthwith. Wheat Eleisabeth. At a meeting of adventurers, held at the Mining Office, Tayastock on the 20th Nov.—10ur Silvin, Fes. in the chair is the context.

sold, 6201. 13s. 11d.: together, 11451. 10s. 7d.—showing balance due purser, 6841. 18s. 11d.—It was resolved that a call of 3l. be made payable forthwith.

WHEAL ELIZABETH.—At a meeting of adventurers, held at the Mining Office, Tavistock, on the 20th Nov.—John Rusdler, Esq., in the chair,—It was resolved, that the workings of the mine be suspended until the arrears of the calls be paid up; and that the purser be instructed to take immediate steps to enforce the payment of all calls in arrear—such calls, when collected, to be paid into the Tavistock bank, of Messrs. Gill and Rundle.—The following report from Capt. G. Francis was read to the meeting:—The adit level was commenced in June last, 42 fms. from a lode, on which a shaft has been sunk 17 fms., producing ore more or less for that depth, the lode varying in size from 4tl. to 6 ft.; there are now 25 fms. more to drive, and, when completed, would be about 17 fms. under the bottom of the shaft before named; the ground in the level has a mineral appearance, and at present can be driven for 50s. per fm. There has been a lode already discovered from 3 to 4 ft. big, which produced some good yellow copper ore, about 4 fms. from the surface. The meeting was then adjourned to Saturday, the 5th December, that the immediate resumption of the workings be then considered.

NORTH ROSKEAR.—At a meeting of adventurers, held on the 12th inst., a dividend of 5t. per share was declared. The cost for August and September, amounted to 47011. 13s. 4d.; the ores sold yielded 50631. 0s. 1d.: leaving a profit of 3511. 6s. 9d., to which add the balance of July account, 20031. 19s. 4d.; and deduct present dividend of 3501.—leaves balance in hand, 20051. 6s. 1d. The mine is not looking so well as it did, and no dividend will be declared next account. Wheat Treerew.—A meeting of adventurers was held at the mine on the 12th inst., at which the accounts were presented, showing balance due.

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WHEAL TREEEN.—A meeting of adventurers was held at the mine on the 12th inst., at which the accounts were presented, showing balance due, at least meeting, to end of May, 1331. 6s. 5d.; for 20-in. cylinder steam-engine, 2401.; to costs, for June, July, Ang., Sept., and Oct., 2541. 1s. 6d.; to merchants' bills, for those months, 3221. 1os. 1d.—189501. 11s.—By call made Jan. 8, of 51. per share, 6401.—leas arrears, not received, 101.: leaving mine in debt 3201. 11s. The accounts, having been examined, were allowed and passed, a call of 41. per share was made, and the purser's salary increased to 41. 4s. per month.—The captain reported to the meeting, that he, in conjunction with Mr. West (the engineer), had purchased and put to work a 20-inch cylinder steam-engine; he had also purchased a capstan, shears, whim, and a lift of pumps 13 fms. long; had sunk the shaft to the depth of 13 fms. 2 ft. from surface, and driven the cross-cut west from engine-shaft 5 fms. 3 ft. On the morning of the meeting, the men cut a branch of lead in the cross-cut 3 in. wide, and expect, after driving the cross-cut about 2 fms. farther, to cut the lode.

MINE ACCULENTIS

MINE ACCIDENTS.

The Accident at Oldbury.—In another column we have given detailed particulars of the principal points respecting this awful calamity, adduced in the evidence before the coroner.

evidence before the coroner.

Explosion of Five-damp near Preston.—A dreadful explosion, accompanied with a very serious loss of life, happened at the coal mine of Mr. J. Hargreaves, jun., at Easton Burgh, on Tuesday last. It appears, that about five o'clock, the time the miners were going to the mines, they, in the usual course, required from the fireman an assurance that the mine was in a fit state for them to enter; from the fireman an assurance that the mine was in a fit state for them to enter; and on Tuesday, they were, as usual, going to their work in the mine—the fireman having first goue down, when, in a few minutes after they had entered, an explosion took place; and, melancholy to relate, eight of the poor fellows lost their lives. Some people attach blame to the fireman, who, it is stated, has not a proper knowledge of the nature of the works; whilst he, on his part, states that the men entered the works before he certified that the pit was safe for them to enter. The following is a list of the killed:—T. Halliwell, and his daughter Jane; S. and W. Turner, 28 and 25 years; W. Wilding, aged 16; Mary Booth, aged 12; Jane Moss, aged 25. Injured—J. Booth, dangerously; T. Graham, ditto; T. Farrimond; T. and J. Farrimond (bis sons); R. Lomax. There were from 30 to 40 other miners in the pit at the time, in other directions, who were considerably alarmed by the shock of the explosion, and who were prevented for some time from coming into the neighbourhood of the mine, where the four sufferers were lying.

for some time from coming into the neighbourhood of the mine, where the four sufferers were lying.

Rowley Regis.—D. Price was killed by a fall of coal in Messra. Barr's Colliery. Kirkby Freleth.—R. Casson was killed by a fall of earth at Fisher Quarry. Plymouth Pits, Merthyr.—J. Oats was killed by a stone falling on him, Darlaston.—R. Cottrill was killed while working at Messra. Addenbrook's Buddle Pit, Workington.—During the violence of a storm the rope used in hoisting the coals was two or three times blown out of the sheave plate, when, on one occasion, while the banks man (John Carr) was endeavouring to replace it, he was struck on the forebead and killed.

Joint Stock Pit, Coxhoc.—J. Wilkinson went to the flat abests of the high main coal seam for the purpose of ascending; and an onsetter being it the act

of taking a tub out of a cage, ran against him, and knocked him through a hole in the battery, and he fell down the opposite shaft, a depth of about 10 fms. Harvey's Coppell Calliery, Stondish, Lancashire.—A dreadful explosion occurred here on Tuesday last, by which three men were killed, and several seriously injured. It appears that the man, whose business it was to renew the fires below early in the morning, had neglected doing so; in consequence of their going out, fire-damp accumulated—and, when he went down, at a later hour, to relight them, an explosion took place.

Hethon Colliery.—W. Gray was crushed while working in the East Minor pit. Shocking Occurrence.—The accidents which accour in carrying on mining operations are as various in their character as they are sudden and appliling in their consequences. At the close of last week, an occurrence took place in a pit in the neighbourhood of Oldbury, which has placed the lives of two unfortunate men in the utmost peril. It appears, from all we can learn, that it is usual for a night gang to descend the pit, and work until relieved in the morning, by the regular hands. On the present occasion, two men descended the mine, and had not been long at work when a sudden fail of coal took place, which crushed the poor fellows in a frightful manner. Their cries for help were unbeard; for the banksman, whose duty it is to attend during the day at the mooth of the shaft, had gone away, and the unfortunate miners were left to their fate. In this situation their sufferings, mental as well as bodily, must have been dreadful; for their was no hope of assistance until their fellow-workmen descended the pit the following morning, when the poor fellows were found in a deplorable state, and conveved to their homes with little hopes of their recovery. The system of leaving men during the night so utterly upprotected and cut off from assistance in case of accident, should be altered, as such a practice cannot be justified on any principle of reason or humanity.—Birming, Joar.

LA JAHOTTIERE IRON COMPANY.

A special general meeting of the shareholders was held at 22, Throgstreet, on Thursday, the 26th inst., pursuant to advertisement.

A special general meeting of the shareholders was held at 22, Throgmorton-street, on Thursday, the 26th inst., pursuant to advertisement.

Bendann Fill., Esq., in the chair.

The advertisement, convening the meeting, and the minutes of the committee, by virtue of which the same was summoned, in accordance with the provisions of the Acte de Société, having been read, the clause (15) in the Act, empowering a special general meeting of the shareholders, holding more than one-half the number of shares, to increase the capital on such same as they might determine, was referred to; and, it appearing that more than two-thirds the interest of the company was present, or represented, the meeting proceeded to the business for which it had been called. The Chairman observed that, it appearing from the representations made to the committee, under date the 27th ult., that it would be expedient to extend its operations by an influx of capital, by the issue of new shares, or such other modes as might be determined upon by the share-holders, the committee had called the present meeting. Mr. Lamie Murzay, who was well informed on the several points of interest and importance in the consideration of the question, and who, moreover, had particularly directed his attention to the subject, would submit to the meeting the views entertained by the committee; and, at the same time, rendily afford such explanations, or information, as to the nature of the company's affairs, and the prespects it presented, which might be required, and which, he doubted not, would be deemed highly satisfactory.

Mr. L. Murray observed, that certain resolutions had been drawn up, with the view to their adoption by the meeting; and, such having been read, it would afford him pleasure to enter into the subject fully, and to render to the proprietors present such information as he possessed.—The resolutions having been accordingly read, Mr. M. proceeded to observe, that in the establishment of the company, as in all similar instances, difficulties had interp

of new or additional shares, of 1000 fr., 500 fr., and 250 fr.—It being understood that the power of voting was confined to the scale laid down in their deed—viz.: 5 shares of 1000 francs, 1 vote; 20 shares, 2 votes; and 30 shares, 3 votes: thus, it would require a party to hold 20 shares, of 250 fr., to place him on an equal position with the holder of 5 shares of 1000 shares, and thus pro rata. There could be no doubt, but that the works would become of infinite importance, from the facilities afforded for the meanifecture of nig and having a companyatively insignificant cost. 1000 shares, and thus pro rata. There could be no doubt, but that the works would become of infinite importance, from the finalities afforded for the manufacture of pig and bar-iron, at a comparatively insignificant cost, as compared to that attendant on the introduction of English pig or bar-iron in France. He might observe that, in the prosecution of the affairs of the company, he had taken upon himself a heavy responsibility; but it was highly gratifying to him to be in a position, in which he could congratulate the proprietors, not only on the prospective returns which might be calculated from the works, but on the actual results at the present moment; as he had no hesitation in saying, that not only might the outlay incurred be realised, with a handsome surplus, but that the present operations, confined as they have been, would leave a profit of 30 to 40 per cent, on the manufacture. The cheapness and excellence of the ores were undoubted, and a reference to the weekly returns of the make and cost would render this demonstrable; the iron ore was most readily fusible, and was of a produce of 40 to 45 per cent,—only 2½ tons being required in the manufacture of a ton of iron, and which was rendered at 3½ fr. per ton; while the quantity of coal might be set down at 30 cwts, to the ton of pig-iron, but which was slightly exceeded with the present make. He might here observe that, in the first instance, nearly three times the quantity of coal was consumed, arising from the ill construction of the furnace, as affected the peculiar properties and richness of the iron ore to be treated; but this had been set right, and hence the reduction in the fuel consumed. It might also be remarked that, in the use of hot air, a considerable saving had been effected by the application of the gases, or heat, to raise the blast to the required point; breeze, or small coal, being only used as an adjunct. Some remarks had been made out of doors by parties, whe evidently had not troubled themselves with the perusal of the prospectus made out of doors by parties, who evidently had not troubled themselves with the perusal of the prospectus, or an inspection of the accounts, and whose expressed opinions were calculated to mislead, without explanation being afforded. He should not occupy the time of the meeting by entering into any detail, as the accounts, and every information relative to the property, were available for reference, and would at once satisfy the most sceptical; while a comparison of the advantages, or disadvantages, could at once be arrived at. As regarded the manufacture of iron in France, he believed he was correct in saying, that 7-10ths of the quantity smelted there was from charcoal; and it must be borne m mind that, with respect to the monopoly which prevaits in France, and which had its natural influence on the affairs of the company, that such must exist, if that the Government would not render that country dependant on supplies from the only two countries in Europe who could render them—viz.: England and Belgium; at the same time, such a measure would destroy one important branch of their national industry—one it would be so difficult to re-establish, after it had been ruined and its elements scattered. However, other industries in France may be opened to free-trade hereafter—there must ever be, from obvious reasons, a protection on iron manufacture, equal to the difference of cost price in England, in Belgium, and France—or leave the latter country dependent, under every circumstance, for a supply of a primary article, either in France, or even on these two countries. There could be no question, but that iron might be smelted in France (La Jakottiere), and converted into pig-iron, or rough castings, at a price very considerably less than that of Welsh pig, or other iron, after paying freight, duty, &c., while, by the use of Welsh anthractic coal with the French are, and availing themselves of cheapness of labour, vicinity to markets, &c., no doubt could exist of their returning large profits.

Mr. Pocock observed, th

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by the chairma

entertained, that the course proposed—that of admitting the public at parawas an act of excessive liberality.

Mr. Tanon agreed, in a great measure, with the last gentleman; but as it had been well observed by the chairmant, and others who had addressed the meeting, the position of the company was that of a certain capital having been expended; and is holding out to the capitalist to embark in common with them, by an equal advance to that which they had made, they would, in fact, place themselves in a far more advantageous position, while the new shareholders would equally derive with them the profits arising from the active prosecution and further development of the works.

In the course of the discussion which ensued, prior to putting the resolutions to the vote, which in the end were unanimously carried, it appeared that the intention of the committee was the introduction of anthracite from South Wales, whereby the ore could be reduced with advantage, as had been proved by the experiments already made at the works: the comparative cost of pigiron, smelted at La Jahotierre, and put in market, being 3t. 11s. 4d. per ton—while the cost in Wales, and added thereto the freight, insurance, duty, and other charges, would be 7t. 4s. 11d., or a difference of 3t. 13s. 7d. per ton.

A vote of thanks having been passed to T. L. Murray, Esq., and M. Duprez, and also to the chairman, the meeting adjourned.

GREAT WHEAL MARTHA MINING COMPANY.

and also to the chairman, the meeting adjourned.

GREAT WHEAL MARTHA MINING COMPANY.

TO THE EDITOR OF THE MINING COMPANY.

SIR,—When I wrote you, a few days ago, respecting the Great Wheal Martha Mining Company, I did not intend my letter for insertion in your Journal, but merely for the purpose of drawing your attention to what I knew was an erroneous quotation in your share list; and I did this in furtherance of your own request to "correspondents in general," to furnish you with "such corrections in your share list; and I did this in furtherance of your own request to "correspondents in general," to furnish you with "such corrections in your share list as you may not have received through your usual channels of information." As, however, you did insert my letter in your paper on Saturday, I hope in justice you will give equal publicity to this, more particularly as you remark that "our correspondent is not a very attentive reader, or he could not have missed the agents' reports of this mine, which are inserted in each alternate Number. With respect to the disposal of his interest, we presume that he would find but little difficulty, on making application to any of the brokers, whose addresses appear in our front page." Now, in the first place, I beg to say, that my requesting information from you respecting these mines, only shows that I have given very great attention to the agents' reports to which you refer, for such ambiguous and meagre documents I never saw. It is almost my invariable custom to call at the office of the company, on the day on which the reports generally arrive, and there read them carefully over, some days before they appear in your Journal. I sometimes also ask information from the clerks, but they appear to know nothing about it; one thing in particular, I have been anxious to asceriain—and that is, what price is obtained for the ore which to any appear in your front page," to buy my shares at anything fish may be a supplied to the sale at any of the minest, and I was induced. as muc

shares is not cofined to Wheal Martha, but pretty general.]

South Maria Mine, and considering it done for private purposes, without particularly interfering with the operations of the mine, I have allowed them to pass unnoticed. On seeing my name mentioned in an unwarranted manner, in your paper of last week, detailing circumstances (relative to the meeting of our adventurers, held on the 12th inst,) for one side of the truth, I am thus induced boldly to meet the author of that paragraph in his own way. He first states the meeting to be an extraordinary full one: nothing can be more untrue—for, out of 15d adventurers, only 18 were present. He next says, the agents recriminated each other: Why does not he tell the truth—viz. that he, with some others, had long been endeavouring to sow the seeds of discord, in reference to the appointment of another captain (which, by some of the largest shareholders, was deemed necessary), and that he made one of the three who laboured so industriously to supplant the purser also—each being candidates for that office? The insertion of this did not answer his purpose—knowing it would appear as evidence, as to what was, and is, his object. On examining closely the spirit of his remarks, it is clearly perceptible that your informant writes like a disappointed man—like one who has made wreck and ruin of former speculation in business—one that has managed his affairs so well, as to manage it into the hands of other people; and, being now on the stream, seems to fancy the handling of the money of South Maria adventurers as their purser. In this attempt, it is equally clear, he has been foiled; and finding the large and respectable adventurers are not easily led away by his slander and sophistry, and being also pretty good judges as in whose hands they are most safe, my rival seems for the time driven from his post, and has recourse to newspaper publications, with a view to prejudice the minds of distant shareholders (If he can induce them to notice it), in order to try his luck again

placed beyond his reach; vet, unlike that subtle animal, fears openly to speak evil of that which he knows to be good—therefore, sculks by them unnoticed. I hope the next time he scribbles, he will favour you with his name to his epistle, that I may enter the field boldly with him; if not, I shall think his remarks worth no further notice.

In conclusion, I am ready to answer any question, give any information, and render an account of my stewardship, to any bond fide shareholder, and at any time, touching the course I have pursued, since elected as the company's purser. Many attempts have been made, and are still making, to discourage the real adventurers, and stop the mine, with a view, I believe, of obtaining the sett. But, let not the shareholders heed such attempts: the company is good; the speculation, by the best of judges, is considered to be most promising; and, having many among us who are large adventurers, men of high standing, and thoroughly experienced in mining affairs, the distant shareholders have nothing to fear, as the mine has been, and will be, conducted under their sanction and general approbation; while the minutes of meetings (with which every shareholder will always be furnished), will always inform them whether, or not, the purser discharges with propriety the duties of the office he is intrusted with.—John Saccombr, purser, South Maria: Tavistock, Nov. 25.

VICTORIA AND ALVIGGAN TIN MINES. Sin,—In your Saturday's Number, I find several errors in Capt. Paull's reports of the Victoria the mine, which I have no doubt have unintentionally arisen on his part, and which I am sure you will readily correct. He says, "on the south is Mineral Courb Mine and the Alviggan Moor, which are not, I am most happy to say, "suspended," but are working with a vigour and enterprise which will soon, I doubt not, convert "the considerable promise," Capt. Paull speaks of, into a most agreeable and considerable reality, as they

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tree are advertised free of charge, and only one party has to pay in each transaction, titles wishing to purchase shares are not required to deposit the cash, but must give affactory reference in London, and receipts sent by return of post for shares deposited.

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| 7 | Great Western Fifths | 0 | - 3 | - 6 | -8 |
| 60 | Great Southern and Western of Ireland | 30 | 10 | . 0 | .3: |
| 20 | Trich North Midland removate | 29 | 10 | 0 | -17 |
| 20 | | . 0 | - 2 | . 0 | |
| 32 | | . 0 | 17 | . 6 | 7 |
| 50 | | 49 | 0 | 0 | 1. |
| 10 | Madras, Nellore, and Arcot | 0 | 7 | 0 | |
| | Manchester, Buxton, and Matlock | a | 9. | 6 | 26/1 |
| 20 | | 9 | 10 | 0 | - 1 |
| 50 | Oxford and Salisbury | 0 | 8 | 0 | - |
| 20 | Rugby, Derby, and Manchester, remanets | 0 | 8 | 0 | |
| 50 | Southampton, Manchester, and Oxford Junction | 0 | 6 | 0 | |
| 85 | Western Gas Light, 3/. paid | 2 | 0 | 0 | |
| 10 | Ditto, 5/. paid | | 10 | 0 | |
| 3401 | | | 7 | 7 | |
| | SHARES WANTED, THIS DAY. | | | | |
| - | (The public can supply any of these shares without paying commis | sion | 1). | | |
| Shar | | | Sh | are | |
| | Aberdeen | 045 | 0 | 0 | ٠, |
| 100 | Armagh, Coleraine, and Portrush | - | 5 | 6 | |
| 5 | Asturian Mine, 84. paid | 3 | 10 | 0 | |
| 100 | Bandon and Bantry | 'n | 6 | ő | |
| 100 | Cornwall, at 17s. 6d., and 50 | ĭ | o | Ö | |
| 100 | Ditto, Halves | Ä | 7 | 6 | |
| 10 | Chester and Holyhead | 95 | ò | 0 | |
| 10 | Commercial Gas | | 7 | 6 | |
| 50 | Central of Spain | - | 5 | 0 | |
| 500 | Essex and Suffolk, remanets, at 2s. 3d., and 500 | 0 | 2 | 0 | |
| 1000 | Exeter, Dorchester, and Weymouth, remanets | 0 | i | 0 | |
| 50 | Great Indian Peninsular | 0 | | 0 | |
| 7 | Kent Waterworks | 40 | 0 | 0 | 20.7 |
| 480 | Loudon and South Essex, remanets | 90 | 9 | | |
| 30 | London, Bristol, and South Wales Direct | 0 | 0 | 9 | |
| 25 | London and South Western, 50%. paid | 1 | 0 | 0 | |
| 10 | London, Salisbury, and Yeovil | | | | |
| 100 | Luxembourg, 4l. paid | 1 | 7 | 9 | |
| 10 | Manchester and Southampton, 1847 | | 12 | 6 | |
| 2 | North Staffordshire | 1 | 7 | 6 | 011 |
| 50 | Nowwood Panishiller 21 - 44 | 5 | 9 | 6 | 4.5 |
| 500 | Newry and Enniskillen, 7l. paid | 0 | 10 | 0 | |
| 75 | Northumberland and Lancashire, remanets | | 3 | 6 | |
| 500 | Oxford, Witney, and Cheltenham | 0 | 8 | 0 | |
| 300 | Rugby and Huntingdom, remanets | 0 | | 0 | |
| 250 | Reversionary Interest Society (King's Arms Yard) | 00 | 0 | 0 | 10 |
| 50 | Shrewsbury and Hereford, remanets | 0 | 2 | 9 | |
| 15 | Ditto, and Herefordshire Scrip | 0 | 12 | 6 | |
| | Sambre and Meuse | 4 | 10 | 0 | |
| 25 | Union Bank of London, at 11/. 5s., and 10 at | 11 | 7 | 6 | |

25 Union Bank of London, at 117. 5s., and 10 at 117 6
490 Worcester, Hereford, Ross, and Gloucester, remaners 0 2 6
50 Waterford, Westford, Wicklow, and Dublin 0 6 0
50 Yorkshire and Glasgow Union 0 12 6
20 Worcester, Warwick, and Rugby 0 7
The public are particularly requested, in sending shares from the country, to enclose them in a registered letter, addressed to Stevens, Hansard, and Co., Transfer Office, 5, Royal Exchange.

Current Prices of Stocks, Shares, & Metals.

Bank Stock, 7 per Cent., 206 3 per Cent. Reduced Ann., 93‡ 3 per Cent. Consols Ann., 95 3 per Cent. Annuties, — 3‡ per Cent. Ann., 95 Long Annuties, 9‡ la per Annuties, 92 India Stock, 102 per Cent., 2562 3 per Cent. Consols for Acc., 942 Exchequer Bills, 1000f., 8 11 8 pm.

STOCK EXCHANGE, Saturday morning, Elec Belgian Bonds, 4½ per Cent., 95 Dutch. 2½ per Cent., 59½ Brazillan, 5 per Cents., 844 Chilian, 6 per Cents., 92 Mexican, 5 per Cents., 22 Spanish, 5 per Cents., 225 Ditto Deierred, 16½ Portugaese, 4 per Cents., 37½ Russian, 5 per Cents., 111½

MINES.—The mining share market generally appears to maintain the quotations of last week, and, in some instances, the prices have advanced. The attention of capitalists is evidently directed towards this species of investment, tations of last week, and, in some instances, the prices have advanced. The attention of capitalists is evidently directed towards this species of investment, and, assuredly, no period offers more satisfactory opportunities. The many dividend paying mines, the generally healthy and improving condition of others, together with the opening of new mineral districts, under the most auspicious circumstances combined, present opportunities to afford a tangthel and legistimate security. Since our last, we learn that West Maria has improved, while Wheal Trelawney will considerably increase her sampling, and Trehane will shortly have her first parcel in the market, with a probability of a regular return. Advices of an improvement in Condurrow has also been received this day, which has created an inquiry for them. Lamheroes have likewise been in demand—buyers upon an advance of our last quotations. During the past week several purchases have taken place in foreign mining shares. We generally deprecate the expenditure of British capital in the exploring of foreign mines, which we have hitherto found to be ill-remunerative, yet we have some hopes that a few will now return a tithe portion of the immense sums which have been expended in their workings. In Bolanos, Altens, Real del Montes (scrip) and loan notes, and Asturian shares, have been done extensively, at present quotations—whilst sellers generally are seeking higher prices. Cobres Santiagos, and Copiapos, are extremely dull, still buyers are to be found at lower figures—consequently, but few bargains have been effected. From the Alten Mines the representations made are of the most gratifying character, which are at present worked at a profit—although, to efficiently and profitably work these extensive setts, a much larger capital is required. Business in the following home mines have been done—viz.: Franco, Lewis, West Wheal Maria, Forescue, Lamberooe Wheal Maria, Forenov Consols, East Wheal Torfty, Herodsfoot, Bedford, West Providence, Gwinear Consols, Wheal Jane,

Herodsfoot, Bedford, West Providence, Gwinear Consols, Wheat Jane, Cubert.

RAILWAYS.—The share market has again been, during the early part of the week, in a very unsatisfactory state. Established lines, whose stock we have noticed, for some time past, as maintaining their figure, are very generally down; the great lines have been exceedingly dull, and the market has been very heavy. The two last days, however, a slight rally took place, and prices might be considered a trifle better, with somewhat more demand.

MEETINGS.—Direct Sheffield and Macclesfield: for dissolution; the meeting was found to be illegal—the notice having been printed "Sheffield and Manchester."—Waterford and Kilkeany: half-yearly meeting; 5½ miles of the line are nearly completed; a call of 3½ will be made in June next; the total receipts had been 90,875£. Its. 11d., and blance in hand was 13,672.9. 8, 10d. The directors were authorised to raise money by loan, to the amount stated in the Act.—Madrid and Valencia: an adjourned special meeting, to hear counsel's opinion as to legality of paying off discontented shareholders; the opinion was adverse to such course—but, it was stated, some capitalists were prepared to make offers to those who chose to retire and another receipes is to be called.

sel's opinion as to legality of paying off discontented shareholders; the opinion was adverse to such course—but, it was stated, some capitalists were prepared to make offers to those who chose to retire, and another meeting is to be called within six weeks.—Maschester and Leeds: special meeting, to make up additional number of directors, and authorise the raising of capital for the forming various proposed branches and extensions.

The Exeter and Crediton Railway is expected to open on the 22d December.—On Friday morning last, the early railway train between Kendal and Lancaster ran over and killed a fine black cat, which was crossing the line with a mouse, and was too intent upon her prey to notice the approach of the engine. The cat was afterwards found completely cut in two, with the mouse firmly fixed between her teeth.—Capt. Joshua Coddington has succeeded Gen. Pasley, C,B, as Government inspector of railways.—Tenders have been accepted for the erection of 800 houses at the Straiford depot of the Eastern Counties railways.—The Margate branch of the South Eastern line is to open on 1st Dec.

LEEDS, Faiday.—The market has been heavy since our last, and prices, with few exceptions, have given way. The Dewsbury meeting, on Monday, confirmed the amalgamation with the London and North-Western—subject to a recommendation, that the terms shall be a minimum guarantee of 7 per cent, instead of 7-10ths of the London and North-Western dividend. The shares are now worth 122, pm.—they were at 142, pm. previously to the meeting, in anticipation of a better offer from the Manchester and Leeds. This company's proposition, however, of a guarantee of 8 per cent, was declined by the meeting. North British seri p thirds have come into our market at 60s. pm.: the acrip quarters are at 20s. pm.

ters are at 20s. pm.

HULL, THURDAY.—Business, since our last, has been tolerably brisk, although the market to-day has evinced signs of weakness. North British, North Westerns, and the York stocks, have declined; Malten and Driffields, Northern Counties Union, and Esstern Unions, have improved. The terms proposed for the East Anglian lines by the Esstern Counties are considered the reverse of satisfactory or fair, and will be streamously by

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ConsolabATED MINES.—The usual two-monthly meeting was held at the mine on the 18th linst, when the accounts were submitted and passed as follows:—By balance from last account, 14162. 4d.; one sold, less dues, 88792. 7d. —97972. 11d.; to costs and merchants' bills for Sept. and Oct., 88402. 16a. 2d.; balance in hand, 14562. 4a. 2d.

nsiderable mine of sulphur has been discovered at Gaudaloupe in the Soffa of Basse-Terre, the surface of which sank during the late earthquake...

LEAD MINING IN DERBYSHIEL—Some doubts are entertained that this branch of our national wealth and resources is, in this district, on the decline. Most of the mines are flooded with water, and others are to a great extent ex hausted. A very many miners are now idle; and it is to be feared, that unless there be great speculations, there will be a great lack of employment for these very hazardous and praiseworthy underground labourers.—Shefield Iris.

A JAHOTTIERE IRON-WORKS (LOIRE INPERIEURE). Notice is hereby given, that NO FURTHER APPLICATIONS for SHARES in this company will be received after FRIDAY, the 4th of December next, immediately after which the allotment will take place. For prospectures, and forms of application, apply to Wm. Tatham, Esq., solicitor, 22, Throgmorton-street, London.

By order of the committee, WM. TATHAM, Solicitor.

[A report of the meeting, and the resolutions passed, will be found in another column.]

PRISTOL AND POOLE HARBOUR RAILWAY.—Notice is hereby given, that the acting committee of this company will proceed, on the Not application will be received after the sth of that month. Dated, November 12, 1846.

CASTLEMAN & KINGDON, Secretaries protein.

[The detailed prospectus is inserted in another column of this day's Mining Journal.]

HEMP AND FLAX MANUFACTURING COMPANY—

(Mr. DONLAN'S PROCESS).—PROVISIONALLY BEGINNING AND PROCESS.—PROVISIONALLY BEGINNING COMPANY—

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HEMP AND FLAX MANUFACTURING COMPANY—

(Mr. DONLAN'S PROCESS). — PROVISIONALLY REGISTERED.

To be Incorporated by Royal Charter, limiting the Hability of sharcholders to the amount of their subscriptions.

Capital £225,000, in 18,000 shares, of £12 10s. each.—Deposit £1 per share.

TRUSTERE FOR THE HAVENOR.

The Right Hon. VISCQUNT INGESTRE, M.P.—SIT GEORGE SINCLAIR, Bart.

PROVISIONAL COMMITTEE.

Lord GHARLES BEAUCLERE, Lowndes-street, Lowndes-square

The Hon. AUGUSTUS BERKELEY, Spring-gardens

M. J. J. DONLAN, Eq., Abbot's Bromley House, Staffordshire.

JOHN EDWARDS, Esq., Rapley, near Bagshol.

J. G. B. HUDSON, Eq., Regent's-park.

(With power to add to their number.)

SECRETAIN—Henry Prater, Esq., M.A., Middle Temple.

SCREENSTENDENS OF THE FACTORX*—Mr. Donlan.

SECRETAIN**—Henry Prater, Esq., M.A., Middle Temple.

SOLICITOR—John Thomas Sanders, Esq., 31, Ely-place, Holborn.

This company, for manufacturing upon the principles of Mr. Donlan, Italian, Russian, Dutch, and colonial, as well as Irish and other home-grown hemp and flax, and all fibrous substances, was formed some years since at Rugeley, in Staffordshire, and it is now proposed to establish it on a larger basis.

The factory is in profitable operation, and the balance-sheet for the year 1645 may be inspected by persons taking shares, at the office of the company, and where also samples of the different fabrics are on view, and some of the fluent prepared fibres are worthy of the serious attention of slk manufacturers.

Private orders for sall-cloths, rick-cloths, paulings, railway sheets, twills for military trowsers, and other fabrics, of superior quality, manufactured from hemp and flax, are executed with despatch.

The necessary deed will be forthwith prepared for the signature of the shareholders.

For particulars, prospectuses, and forms for applications for shares, Eq., 31, Ely-place, Holborn, the solicitor to the company; or to the understances, fac, 31, Ely-place, Holborn, the solicitor to the promoters of the company.

JOHN SINPSO

25, Moorgate-street, and 1, Coleman-street-buildings.

THE PATENT SAFETY FUSE,
FOR BLASTING ROCKS IN MINES, QUARRIES, AND FOR SUBMARINE
OPERATIONS.—This article affords the SAFEST, GHEAPEST, and most EXPEDITIOUS MODE of effecting this very hazardous operation. From many testimonies to its
userulness with which the manufacturers have been favoured from every part of the king
dom, they select the following letter, recently received from John Taylor, Esq., F.B.S.,
&c.:—"I am very glad to hear that my recommendations have been of any service to
you; they have been given from a thorough conviction of the great usefulness of the
Safety Fuse; and I am quite willing that you should employ my name as evidence of this."
Mannfactured and sold by the Patentees, BICKFORD, SMITH, and DAVEY Camborne, Cornwall.

PATENT GALVANISED IRON WIRE ROPE WORKS

MILLWALL, POPLAR.

ANDREW SMITH begs to inform the Mining, Railway, and Shipping interests, that he
has obtained a PATENT for an IMPROVED METHOD of GALVANISING IRON, producing a much superior article at a considerable saving in cost—the improved process for
galvanising wire rope, adding only £10 per ton instead of £20, under the ordinary processes. The rope is extensively used her damp situations, for mining and railway purposes, and for ships' standing rigging.

TO ENGINEERS, BOILEB AND TANK MAKERS, IRON SHIPBUILDERS, RAILWAY COMPANIES AND CONTRACTORS.

THE PATENT RIVET COMPANY, SMETHWICK, near BIRNINGHAM, MANUFACTURERS of BOILER AND TANK RIVETS, PINS AND COTTERS, BOLTS AND NUTS, RAILWAY SPIKES, BOLTS, &c., can SUPPLY these ARTICLES, of every description, of best quality, at lowest prices, and at shortest notice.—Prices given, and contracts to any extent taken, by Mr. ALEX. REID, Xo. 70, LOWER THAMES-STREET, LONDON, agent for the company.

DATENT GUTTA PERCHA BANDS—TO MILLOWNERS,
MACHINISTS, &c.—The GUTTA PERCHA COMPANY are now prepared to
SUPPLY their PATENT DRIVING BANDS, of any length, width and substance. Gutta
Percha Bands are of uniform substance—jumping is avoided, and they hug their work in
a remarkable manner. They need only to be tried to prove their superiority over every
other kind of band hitherto in use.

Orders received at the company's works, 18, Wharf-road, City-road.
London, Nov. 26, 1846.

E. GRANVILLE, Manager.

OBSERVATIONS ON THE VENTILATION OF MINES:
with a DESCRIPTION of a NEW MINE VENTILATOR.
By WILLIAM PRICE STRUVE, Civil Engineer, Swansea.
London: Weale, 59, High Holborn; Varty, 31, Strand.—Swansea: Williams, Cambries Office.—Price 6d., and by post 8d.

THE RAILWAY REGISTER, No. XXV., Edited by HYDE CLARKE, Esq., price, 2s, 6d., contains—Foreign Railway Investment—the Dutch Rhenish Railway—Statistics of Beigian Railways in 1844 and 1845—Indian Railway Trattic —Mr. Reed's Report on the Southampton Railway—Grand Junction Prospectus, &c. Offices, 42, Besinghall-street; Simpkin' and Marshall; Weale; Eichardson; Grapel and Webb, Liverpost; Thomson, Manchester; Matthias, Faris, &c.

TOOTH-ACHE, TIC-DOLOREUX, & EAR-ACHE, instantly CURED, by using the celebrated GREGORIAN PASTE, which has never been known to fail in one single instance. It is perfectly harmless, and applied with the greatest case. The Gregorian Paste is so well known and esteemed, that it is needless to speak of the virtues.—Sold wholesale by F. Kain, 5, York-terrace, Commercial-road East, and by most respectable chemists.

. We have been compelled to omit our RAILWAY SHARE TARLE

RAILWAY TRAFFIC RETURNS.

From these returns, it will be seen, that the amount of traffic for the last week, on nee 2760 miles of railway, was 138,3421., thus accounted for :—70,3661, for the conveyance passengers only, 38,4431. for the carriage of goods, and a remainder of 29,5531, for pass gers and goods together, not respectively apportioned; being an increase over the corsponding week of last year of 15,5191.

| Name of Railway. | Lgth. Rway. | Present ac- tual cost. | Last Div. | Traffic Reta | rns. 1845 |
|---------------------------------|----------------|---------------------------|--------------|---------------------|--------------|
| Arbroath and Forfar | 15 | £142,900 | 3p.c. | £ 192 14 11 | £144 |
| Chester and Birkenhead | 15 | 658,293 | 24 | 515 19 0 | 515 |
| Dablin and Drogheda | 32 | 699,975 | 34 | 673 1 3 | 617 |
| Dublin and Kingstown | 6 | 349,736 | 9 | 620 19 7 | 861 |
| Dundee and Arbroath | 17 | 156.324 | 6 | 269 8 84 | 282 |
| Durham and Sunderland | 19 | 302,118 | 9 | 692 4 8 | 707 |
| E. Counties & North, & East | 161 | 4.746,113 | 5 | 8051 14 5 | 5481 |
| Eastern Union | | - all andreas | 1110 | 423 0 0 | 0401 |
| Edinburgh and Glasgow | 46 | 2,112,136 | 6 | 3295 4 6 | 2427 |
| Glasgow, Paisley, and Ayr | 53 | 1,301,381 | 7 | 2060 0 11 | 1857 |
| Glasgow, Paisley, & Greenock | 23 | 829,427 | 9 | 832 12 11 | 834 |
| Gravesend and Rochester | | 82,828 | TV Store | 002 12 11 | 118 |
| Great Western | 241 | 8,685,605 | 8 | 15588 0 0 | 15561 |
| Hartlepool | 1000 | - alonalano | _ | 10000 0 0 | 1214 |
| London and North Western | 4401 | 16,327,526 | 10 | 36221 11 4 | 33387 |
| London and Blackwall | 11111111 | 1.081.273 | 14 | 735 7 7 | 704 |
| London & Brighton & South Coast | 113 | 4,670,721 | 5 | 6748 5 4 | 4078 |
| London and South-Western | 106 | 8.648.547 | 101 | 5556 0 14 | 3896 |
| Manchester & Leeds | 117 | 4,636,556 | 8 | 8101 11 7 | 5919 |
| Manchester, Bolton, & Bury | 10 | 842,725 | 51 | and the same of the | 889 |
| Midland Company | 331 | 8,831,195 | 7 | 17355 2 3 | 14981 |
| Newcastle and Carlisle | 65 | 1,137,385 | 64 | 2000 19 4 | 1670 |
| Norfolk | 59 | 985,080 | . 5 | 1306 3 10 | 1025 |
| North British | 72 | 1,461,195 | - | 1148 7 1 | - |
| Preston and Wyre | 29 | 432,014 | 24 | 541 13 7 | 394 |
| Sheffield and Manchester | 49 | 1,633,331 | 5 | 1822 0 1 | 1064 |
| South Devon | 15 | 778,976 | - | 265 9 10 | 11/14/7 |
| South-Eastern and Dover | 120 | 6,613,535 | 34 | 6678 4 5 | 5875 |
| Taff Vale | 30 | 690,229 | 5 | 966 12 11 | 1086 |
| Ulster | 25 | 356,353 | 54 | 739 2 6 | 601 |
| York and North Midlend | 162 | 2,092,979 | 10 | 5475 8 3 | 4893 |
| Northern of France | 260 | | 4 | coopera end yah | 01 7 10 |
| Orleans and Bordeaux | 72 | 399,040 | 4 | STREET, SANGE OF | ment . |
| Paris and Orleans | 82 | 2,082,916 | 94 | SACINFORD DATE: N | 5672 |
| Paris and Rougn | 85 | 1,995,306 | 8 | 5904 0 0 | 4998 |

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PRICES OF MINING SHARES.

| The state of the s | Landau Commission and Control Library Control and Control |
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| BRITISH MINES. | BRITISH MINES confinued. |
| BRITISH MINES Prica Prica 1924 Afred Coupony Paid Prica 1924 Afred Coupons 44 50 235 Androw and Nanglies 28 | Shares. Company. Paid. Price. 128 South Wheal Esset 150 124 South Wh. Fraucis |
| 235 Andrew and Nanglies 28 30 | |
| 4000 Bedford 24 34 | 256 South Wh. Hope 5 1000 South Wh. Maria 2 2 2 256 South Wheaf Hose 112 1 |
| 198 Besore Lead Mine 14 30 320 Birch Tor Tin Mine 212 14 | 256 South Wheat Hose 111.4 1 |
| 8000 Blaenavon 50 40 | 256 St. Austell Consols 7 15 |
| 8000 Blaenavon 50 40 256 Bodwannick 3 100 Botallack 175 300 | 94 St. Ives Consols 600 1000 Stray Park 43 . 21 |
| 120 Brewer | 9600 Tamar Consols 3 5 |
| 10000 British Iron, New, regis. 10 19 Ditto ditto, scrip 10 19 | 1024 Tavy Consols |
| 128 Budnick Consols 524 45 | 256 Ting Tang 89 30 |
| 1000 Callington 19 25 | 126 Tokenbury |
| 256 Caradon Consols 45 18 | 5000 Treleigh Consols 6 34 |
| 256 Caradon Copper Mine 94 5 256 Caradon Mines 15 24 256 Caradon United 24 10 | 256 Trenow Consols 30 96 Tresavean 10 225 |
| 256 Caradon United 24 10 256 Caradon Wh. Hooper 12 7 | 120 Trethellan 3 . 20 |
| 1000 Carn Bres 15 100 | 190 Treviskey and Barrier 61 - 135 256 Trewallack 20 128 Trewellard 13 - 25 |
| 114 Charlestown 200 | 128 Trewellard 19 25 000 United Hills 5 . 24 |
| 1900 Combinatin | 000 United Hills 5 . 24 4100 United Mines 200 8004 256 Wellington Mines 15 25 |
| 1000 Comblawn 2 2 128 Comfort 37 | 256 Wellington Mines 15 25 |
| 5000 Con, Tretoil Mining Ass. 3‡ 4 | 256 West Caradon 20 250 |
| 128 Condurrow 36 55 2560 Cook's Kitchen 4 | 128 West Cargoll 2 12 12 12 35 |
| 1000 Copper Bottom 1 5 | - West Kekewich Consols 3 |
| 1024 Cosheen 41 30 240 Craddock Moor 154 20 | 256 West Providence 121 200 West Seton 40 |
| 128 Creeg Braws 120 200 | 120 West Trethellan 5 25 |
| 7100 Derwent 5 | 256 West United Hills 4 11 256 West Wh. Friendship 71 4 |
| 1024 Devon & Courtney Con. 5 41 | 3845 West Wheal Jewel 11 24 |
| 186 Dolcuath | 2560 West Wh. Marla 2 256 West Wheal Shepherd 67 |
| 10000 Durham County Coal 45 9 | 256 West Wheat Tolgus 211 10 |
| 256 East Aivenney 3 10 112 East Caradon 40 40 | 256 West Wheal Treasury 144 10 240 Westerlake 3 3 |
| 112 East Caradon 40 40 2048 East Crowndale 34 2 128 East Pool 5 20 100 East Relistian 15 17 9000 East Tamar Consols 14 3 | 5200 Wickiow Copper 5 16 184 Wheal Adams 41 30 |
| 100 East Belistian 15 17 | 1000 Wheal Agar |
| East Wireal Albert 1 3 | 256 Wheal Albert 10 8 128 Wheal Acland 13 . 2 |
| 94 East Wheal Crofty 310 | 256 Wheal Allen |
| 256 East Wheal Kitty 1 | 368 Wheal Anderton 104 11 128 Wheal Ann 502 |
| 128 East Wheal Rose 50 1100 | 128 Wheal Arvose 2 21 |
| | 128 Wheal Arvose |
| | 256 Wheal Byon Consols |
| | 1024 Wheal Concord 64 54 |
| 1000 Godolphin | 512 Wheal Elizabeth 21 3 256 Wheal Fortescue 51 10 |
| 244 Grambler & St. Anbyn — . 25 | 2048 Wheal Frederick 2 2 |
| 100 Great Consols 1000 400 256 Great Callestock Moors 114 12 | 384 Wheal Franco 25 25 512 Wheal Fortune Consols 1 6 |
| 2560 Great Michell Consols 2 4 | 256 Wheal Gill 194 18 |
| 256 Great Resugga Moor . 2 . 3 512 Gt.Wh.RoughTorrCon. 2 . 25 | 128 Wheal Harriet 45 48 2048 Wheal Holwell 12 12 |
| 512 Gt.Wh.RoughTorrCon. 2 25 100 Grogwinion 5 | 200 Wheat dans b 40 |
| 200 Winear Consols 5 25 | 265 Wheal Kendall 112 5 256 Wheal Kekewich 4 4 |
| 1000 Harson | 256 Wheal Louisa 5‡ 10 |
| 1000 Harrowbarrow Consols 2 4 | 1024 Wheal Maria 1 420 |
| 6000 Heignston Down Con. 2. 21 | 4000 Wheal Martha Consols. 5 21 256 Wheal Mary Ann 5 70 |
| 256 Herodsfoot 14 5 | 1024 Wheal Mary (Culstock) 42 12 |
| - Hobb's Hill 4 3 | 256 Wheal Mary Consols. 34 25 256 Wheal Mary Lunivet. 21 8 |
| 1000 Holmbush 18 13 256 Ivy Tor 14 24 | 256 Wheal Mary Pentuan 14 4 256 Wheal Maud 14 4 |
| Was Kirkendbrightsbire 31 42 | 128 Wheat metha 21 110 |
| 2048 Lamherooe Wh. Maria 8 6 2048 Lanivet Consols 21 2 | 256 Wheal Norris 9 2 128 Wheal Pollard 124 12 |
| TOO LINE KHOICH I O | 210 Wheal Prospect 4 9 |
| 160 Levant | 128 Wheal Providence 34 40 128 Wheal Reeth 1 60 |
| 1280 Llancynfelin 6 10 | 128 Wheal Rose 40 25 |
| 4000 Marka Vallay 10 21 | |
| 5000 Mendip Hills 14 14 | 99 Wheai Seton150 800 1024 Wheal Spearne 12 8 256 Wheal Sisters 272 20 |
| 200 Nanterrow Consols 144 12 | 128 Wheal St. Cleer 912 15 |
| 128 North Fowey Consols 20 22 100 North Pool 11 . 61 | 260 Wheal Trelawney 75 120 |
| 200 Nanterrow Consols 14± 12 128 North Fowey Consols 20 22 100 North Pool 11 61± 70 North Roskear 10± 300 256 North Treburget 4 4± 4± 12 12 12 13 13 13 14 14 15 15 15 15 15 15 | 256 Wheal Trewennan 10 |
| | 128 Wheal Venland 124 10 256 Wheal Victoria 2 2 |
| 256 North Wh. Leisure . 14. 4 | 127 Wheal Virgin 50 1024 Wheal Walter 4 3 |
| 256 North Wheal Rose 264 13 | 256 Wheal Williams 2 18 |
| 600 Old Delabole Slate Co. 25 . 45 | as seed total had and to some dilw and |
| 128 Par Consols 900 | FOREIGN MINES. |
| 256 Pembroke | 5000 Alten Mining Company 141 34 15000 Asturian Mining Co 6 . 5 |
| 6000 Pennant 1 1 | |
| 128 Pen-y-Cem Mine 50 55 | 3374 Ditto Subscription 25 22 |
| 1280 Perran St. George Un. 13 20 | 2000 Bolanos |
| 512 Plymonth Wh Vooland 14. 21 | 10000 Brazilian Imperial 20 3 |
| 256 Redruth Consols 3 4 14 | 12000 Cobre Copper Co 40 18 |
| 10000 Rhymney Iron 50 % 25 | 5000 Ditto Scrip |
| 1000 Rosewall Hill 1 5 | 20000 Copiapo Mining Co 14 25 |
| 256 Sourton Consols 3 2 | 5051 Mexican Company 59 — |
| 128 South Caradon 10 350 | 12000 Mocaubas & Cocaes 25 64 29320 { Rl.del Monte, regis. } 284 av. 34 |
| 128 South Caradon 10 350 2000 South Dolcoath 2 | Ditto unregistered 201 av. 35 |
| 200 South Harvannah 23 26 | Ditto Back ditto 21 Ditto Black ditto 18 Ditto Loan Notes 150 120 |
| 9000 South Tamar | 7000 Royal Santiago 10 74 |
| 800 South Towan 10 11 | 7000 Royal Santiago 10 71 2000 Pachuca Mines 3 31 |
| 128 South Leonand 102 20 | 11000 St. John del Roy 15 84 43174 United Mexican 284 34 |
| . We should feel greatly obliged by ages | els, or others interested, furnishing us with may not have received through our usual to present as accurate a list of prices as can |
| channels of information—our object being | to present as accurate a list of prices as can |
| be obtained—to procure which, we solicit t | he aid of correspondents in general. |

LATEST CURRENT PRICES OF METALS.

| £ 8. £ 8. d | £ 8. £ 8. |
|--|--|
| | Corren-Ordin. sheets, 76. 0 0-0 0 |
| " London 0 0-10 0 0 | ,, bottoms . 0 0-0 0 |
| Nail rods 0 0-10 15 0 | Chillan, in cakes 0 0- |
| Hoop(Staf.), 11 5-11 10 0 | |
| Sheet , , 0 0-13 0 0 | burs 0 0 4 19 |
| Rara | Refined ft 0 5 1 |
| Welsh cold-blast? | Straitsh 0 0-4 18 |
| Welsh cold-blast 5 5 5 5 10 0 | Banca 0 0-5 3 |
| Scotch pigb, Clyde 3 10- 3 19 0 | |
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| Russian, CCNDc 0 0- | Coke 10 IX 1 15- 1 17 |
| PSI 0 0 | Coke, IC 0 0-1 6 |
| Gourieff 0 0- | IX 0 0-1 12 |
| | Exap-Sheetton 19 5-19 10 |
| " Archangel 0 0-13 10 0 | |
| Swedish d,on the spot 11 10-12 0 0 | " common 18 5-18 10 |
| " Steel, fagt. 0 0-16 0 0 | |
| , kegse 14 15-15 0 0 | |
| COPPER-Tilef 0 0-87 10 0 | |
| Tough cake 0 0-88 10 0 | |
| Best selected 0 0-91 10 0 | QUICESTLYER # /b. 0 0-0 4 |
| - use of transmiss and the business from A | THE COURT OF STREET CONTRACT CHARGE DURING |
| a Discount 21 per cent. b Net cash. | e Discount 21 per cent. d Ditt |
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n Discount 12 per cent.

IRON.—Welsh and Staffordshire are sleady at quotations, with a fair demand; in Scotch pigs there has been very little done this week; the recent failure of a very large operator at Glasgow, has had an unfavourable effect upon the market; in Russian and Swedish nothing doing.

Corress continues steady, as also LEER and TIN-PLAYS.

Thy remains very season, as the control of the co

ilsh nothing doing.

COPPER continues steady, as also Lean and Tin-Plate.

Tin remains very scarce, with buyers of English at quotations, for arrival—the tractions in Banca and Straits are very limited; but stocks are low, and holders firm.

In Spelter nothing doing this week.

English from continues firm; but the transactions during the week have been few. Scotch pig-tron is quite neglected, owing to the failure at Glasgow of the principal operator in the article; it is, however, thought that it will be higher, as so few parcels are pressing on the market; 69s. to 70s. cash has been offered for mixed Nos, and 7is. cash far No. 1, and refused. Swellsh from and steel are firm. English copper without alteration. English block in is nominally 99s. 6dd. Smulers being very reductant in making sales, Banca has been sold this week at 5d. 2s. Straits scarce. The plates are in full demand at quotations. In English lead there is little doing. Spelier has been sold in small parcels during the week at 18d. 2s.

Nov. 25.—This weak the trade has been rather depressed, by resson of an extensive allure. Prices have declined, and may lookay be quoted at 68s. do, for No. 3; 69s. 6d. or mixed Nos., and 71s. for No. 1—cash in 4s days. Fer immediate cash; mixed Nos. as a sold to-day at 68s. 6d. and 69s.

THAMES TUNNEL COMPANY.

The number of passengers who passed through the Tunnel in the week ending Nev. 21, was 16,643; amount of mongy, £69 6a. 11d.

Contract for Iron Railings, &c., for Belgium.—The governor of Brabant has concluded contracts for 2000 tons iron rails, 600 tons iron sleepers, 20 excentrics complete, and 33 tons pins, divided into 10 lots, required for establishing double lines on the state railways of Belgium.—Ist lot: 500 tons rails were contracted for by M. Pastor, of Cockerill and Co., Seraing, at 41.16s. 8d. per ton; the other lots, of 500 tons each, were taken by Belgian and French forgemasters at the same rate.—5th lot: 150 tons iron sleepers was taken by M. Elias, of Sclessin, at 84.8s. 2d. per ton.—6th lot: 150 tons to M. Dupont, at 7l. 16s. 8d. per ton.—7th lot: 150 tons iron sleepers, by Messrs. Cambier and Fontaine, at 8l. 4s. 2d. per ton.—8th lot: 150 tons to M. Dupont, at 7l. 16s. 8d.—9th lot: 33 tons pins, at 15l. 2s. 6d.; and 10th lot: 20 excentrics, at 15l. 8s. 4d. per ton. There was great competition to obtain these contracts, as they are expected to lead to other extensive affairs. lead to other extensive affairs.

GREAT NORTHERN (LONDON AND YORK).—About 75,000 tons of iron rails will be required for the formation of the entire line during 1847 and 1848. The first instalment of sleepers on which to lay them amounts to 500,000.

COPPER ORES.
Sampled Nov. 11, and Sold at Pearce's Hotel, Truro, Nov. 26, 1846.

| Mines. Tous. Price | |
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| Consolidated 110£8 4 | 0 Bolema 26 £8 15 (|
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| ditto 90 4 15 | 0 Wh. Leisure 22 7 2 (|
| ditto 76 9 10 | 6 Grambler & St Aub 68 7 18 |
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| United Mines 117 6 6 | 0 ditto 49 11 0 0 |
| ditto 109 6 8 | 6 ditto 39 3 17 E |
| ditto 101 4 5 | 6 Ting Tang 89 4 6 6 |
| ditto 94 4 3 | 6 ditto 40 ver 5 7 1 |
| ditto 89 5 9 | 6 Trethellan 93 2 19 6 |
| ditto 70 3 13 | 6 ditto 32 5 18 0 |
| ditto 38 5 0 | 0 Wh. Ellen 102 6 17 0 |
| ditto 27 2 6 | 6 ditto 10 2 10 t |
| Tresavean 87 3 2 | 0 Barrier 58 4 19 6 |
| ditto 71 5 5 | 0 ditto 42 3 h (|
| ditto 63 2 13 | 0 Wh. Sisters 35 6 17 6 |
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| ditto 21 1 5 | 0 ditto 97 3 1 0 |
| South Caradon 5 10 | 0 Wh. Andrew 36 5 6 0 |
| ditto 78 8 10 | 0 Nangiles 22 6 6 6 |
| ditto 66 7 5 | 0 ditto 14 5 10 6 |
| ditto 45 5 2 | 6 Wh. Clifford 55 4 11 6 |
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| Perran St. George . 81 3 9 | 6 Wh. Busy 29 8 7 0 |
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| table a measure of county to contact | an a secretary and an introduce for the board famility. |

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COMPANIES BY WHOM THE ORES WERE PURCHASED.

| THE THE PERSON STATES AND ALM DELLE THE STREET SHEET | TOUR | | AIII | oun: | W | |
|--|-------------|------|------------|------|--------|---|
| Mines Royal | . 373 | | £ 2595 | 4 | .6 | |
| English Copper | . 678 | | 3628 | | 9 | 6 |
| Vivian and Sons | . 919 | | 3949 | 15 | 0 | |
| Freeman and Co | | | | | Danico | |
| Grenfell and Sons | 293 | | 1802 | 11 | 6 | |
| Crown Copper Company | | | | | 3 | |
| Sims, Willyams, and Co | . 657 | | 3024 | 8 | 6 | ı |
| Williams, Foster, and Co | . 817 | | 4723 | 3 | 9 | X |
| of 1000 ft, 500 ft. and 200 ft t be | , education | da I | - personal | - | a irra | |
| Total tons | 4357 | | £22,731 | 14 | 6 | |

Copper ores for sale on Thursday next, at Andrew's Hotel, Redruth.—Mines and Parcels.—Camborne Vean 604—East Wheal Croity 583—Wheal Seton 505—Tincroft 583—Dolcoath 294—Fowey Consols 205—South Wheal Basset 186—Condurrow 153—South Wheal Fancis 150—North Pool 150—East Pool 52—Lamivet Consols 70—Wheal Enckets 61—Godolphin 60—Tretoil 56—Hanson Mines 32.—Total, 3574 tons.

Copper ores for sale on Thursday week, at Andrew's Hotel, Redruth.—Mines and Parcels.—Carn Brea Mines 575—Par Cohsols 250—United Hills 241—Wheal Prosper 219—Wheal Virgin 196—Wheal Tremayno 163—Trenow Consols 64—Providence Mines 56—Wheal Rodney 50—Wheal Kayle 41—North Wheal Basset 28—Bastian's Ore 22—Wheal Tremwith 21.—Total, 1928 tons.

COPPER ORES Sampled Nov. 4, and Sold at Swansea, Nov. 25, 1846.

| 1 | Mines. Tons. Prod. Stand. | Price. | Mines, Tons. Prod. Stand. Price. | |
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| 1 | | | Cobre 75 211 874 £16 4 | ð |
| | ditto 91 204 904 1 | 6 6 6 | ditto 59 214 864 16 4 | ð |
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| | ditto 85 224 8541 | 7 4 6 | Kaw-aw 25 114 97 8 18 | ä |
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| E | inglish Copper Company 17 | 15 | 4190 17 0 |
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| V | ivian and Sons 61 | S | 9690 13 0 |
| W | Filliams, Foster, and Co 46 | 94 1 | 10511 3 3 |
| OC 191 | Cartific was from charcual, and transcal | STATE TO LINE | PRODUCT TO SE |

Copper Ores for Sale Dec. 9.—Chill 86, ditto 84, ditto 82, ditto 51, ditt Cobre 105, ditto 80, ditto 67, ditto 58—Cube 86, ditto 84, ditto 79—Burra 66, ditto 59—Australia 64, ditto 1—Glasgow Slag 36—French Slag 35—Si tacute 24—Paringa 19—Sauta Anna 14—Cwm Sebon 13—Florida 1.—Tot

COAL MARKET, LONDON.

**PRICE OF COALS PER FON AT THE KLORE OF THE MARKET.

MONDAY.—Hasting's Hartley 16 9—Stewart's Hartley 15 9—Shaftoe Hartley 15 6—West Hartley 16 6—Wall's End Acora Close 16 6—Clarke and Co. 17—Mospur 18—Ellingworth 16 6—Wall's End Acora Close 16 6—Clarke and Co. 17—Mospur 18—Ellingworth 16 6—Wall's End Acora Close 16 6—Clarke and Co. 17—Mospur 18—Ellingworth 16 6—Wall's End Acora Close 18 6—Clarke and Co. 17—Mospur 18—Ellingworth 16 6—Wall's End Walker 18—Eden Main 20—Haston 18 6—Mospur 18—Eden Main 20—Haston 18 6—Newson's West Hartley 16 3—Webness 18—Wall's End Walker 18—Eden Main 20—Haston 18 3—Wall's End Walker 18—Eden Main 20—Haston 18 3—Wall's End Walker 18—Eden Main 20—Hasting's Martley 16 6—Holywell Main 19—Nelson's West Hartley 16 6—New Tamfield 16 6—Claseor Main 16 6—Davison's West Hartley 16 6—New Tamfield 16 6—Original Bute's 16 6—Ord's Recibeugh 16 6—Tamfield Mour's 18—Townley 17—West Hartley 16 6—Wall's End Bewicko and Co. 18 3—Hell ond Brown 18 3—Cleanell 16 6—Haston 17 9—Hilling to Main 18 9—Relinont 18 6—Braddyl's 17 9—Wallington 17 6—Eden Main 18 9—Relinont 18 6—Braddyl's 17 9—Wallington 17 6—Eden Main 18 9—Relinont 18 6—Braddyl's 17 9—Wallington 17 6—Eden Main 18 9—Relinont 18 6—Rascol's Hetton 19 6—Stewart's 18 9—Cassop 19 6—Heugh Hall 19—Hadson 18 6—Toos 19—Edgar 15—Derwentwarer Hartley 18 6—Ships at market, 179.

MEETINGS OF SCIENTIFIC BODIES DURING THE WEEK.

| Modelly, Manuelton, Money, 12 | | | |
|---|-----|-------|--|
| Royal Botanic Inner Circle, Regent's-park Saturday | 34 | P.M. | |
| British Architects 16, Grosvener-street Monday | | P.M. | |
| Medical Boit-court, Fleet-street Monday | 8 | P.M. | |
| Royal Monday Monday | 4 | P.36. | |
| Linnsean Soho-square Tuesday | 8 | P.M. | |
| Horticultural | 2 | P.M. | |
| Society of Arts | 8 | P.M. | |
| Geological | .03 | PH. | |
| Antiquaries Somerest-house Thursday | 8 | P.M. | |
| Botanical 20, Bedford-st., Covent-gar., Friday | 8 | P.M. | |
| Westminster Medical 27 A, Sackville-street Saturday | 8 | P.M. | |
| | | | |

NOTICES TO CORRESPONDENTS.

DUBNAL is published at about Eleven o'clock on Saturday more set-street, and can be obtained before Twelve of all the news ag

Our next Journal will be on the usual ENLARGED SHEET, and will contain, beside

Our next Journal will be on the usual EMBARGED SHRET, and will contain, obsides averal articles and miscellaneous intelligence, now recessarily omitted—Continuation of the series of papers on the METALLURGICAL TREACMENT OF OIRES, &c.—An interesting paper on the Manufacture of Coal Gas, and its Distribution.
ARREY'S COMPARSSED AIR-ENGINE.—In answer to several correspondents, we are informed that the company is coal fide constituted, and that measures are being adopted for giving it a fair trial on a full working scale. We are not in possession of particulars; but on the earliest knowledge of any experiments being made, we shall endeavour to report the result.

G. A."—We cannot give the "opinion" required by our correspondent—he must appl to some sharebroker, or obtain a prospectus from the company, and judge for himself to some sharebroker, or obtain a prospectus from the company, and judge for himse Da. RITTERBANDT'S PATENT.—We have received a communication from Mr. Gillot, which he expresses regret for having unintentionally offended the feelings of Dr. Mu ray; but, as we have fell called upon to offer some remarks of our own on the subject he insertion of his letter is unnecessary. We have also received the letters of "A Old Subscriber" (Teignusouth), addressed to Mr. G., and also to the Editor direct.

Old Subscriber" (Teignisouth), addressed to Br. es, and also to the Lembr direct.

Size frinarks, which appared in the Morning Post, of Wednesday, are deferred from
want of space, and not requiring immediate notice. The deductions drawn from th
figures quoted are, we have no hesistation in saying, incorrect; while the evidence adduced has reference to so small a "make," and the question of coke, even as regard
grice, not to advert to it as applied only to boliers of furnaces, and not to biast-furnaces
is such as to render it perfectly inapplicable.

THE MINING JOURNAL And Atmospheric Railway Sazette.

LONDON, NOVEMBER 28, 1846.

As the conductors of a Journal devoted to the pursuits of science we feel it our duty to afford opportunities by which its promoters may at all times, when misrepresentations have got abroad, set themselves right with the public; and it is with pleasure that we now call attention to the subject of the patent of Dr. Ritterband, for preventing incrustation in steam-boilers, convinced as we are that he has been an ill-used man. The article in the *Pharmaceutical* from whatever motives written, has done all the mischiefand which, from official and other documents that we have had an opportunity of inspecting, we believe to be a tissue of falsehoods from beginning to end. As to who was the inventor or discoverer of the method, there does not require a word—Dr. RITTERBANDT is in the safe enjoyment of his patent; but the absurd charge, that he was such a novice of a chemist, that, on one occasion, he supplied sulphate of ammonia, requires explanation—and only shows on what slender grounds a badly-disposed man may found a charge. Dr. RITTERBANDT was, on one occasion, supplied with muriate of ammonia, which, unknown to him at the time, contained a large pormonia, which, unknown to him at the time, contained a large portion of sulphate—a portion of this he sent to a firm using his patent, to whom, of course, it would have been worse than useless, had it been used; but, on the discovery being made, he immediately took it back, and sent in a supply of pure muriate: this is the whole fact of the case; and, in his specification, it will be found he claims only for the "muriate," the "nitrate," and the "acetate" of ammonia—three salts which have been found to meet every case of boiler deposit, and which form soluble salts by the double decomposition with the salts of lime. We have seen numerous testimonials, from some of the largest manufactories in the kingdom, as well as from several of the most eminent steam-vessel builders. well as from several of the most eminent steam-vessel builders, agents of steam-boat companies, and from conductors of locomotive departments, from which it is clear the use of Dr. Ritter-BANDT's patent gives universal satisfaction, may be used for months without requiring blowing off, and is a great saving of expense, both in tubular and marine boilers. We regret that the article in question should have misled our respected correspondent Dr. Murray, as we also regret our insertion of Mr. Gillor's letter in its objectionable form—for, had we noticed the offensive sentences before going to press, we should certainly have clothed it in gentler garb. Dr. Murray's character, however, as a philosopher and chemist, stands too high to be injured by the puny shafts of thought-lessness or expressed malice—the former of which was, doubtless, the cause of the assertions in the letter complained of. Our object in these few remarks is to do justice to a clever and an honour-able man; and, we trust, they will, in some measure, rescue Dr. RITTERDANDT from the unmerited ridicule and obloquy which has been attempted to be heaped on him.

The question of the repeal of the duties on foreign copper ores exciting a good deal of attention at the present moment, it is proper that the question should be clearly understood, and laid before the public in so ungarbled a shape, that its real merits may be per that the question should be clearly understood, and laid before the public in so ungarbled a shape, that its real merits may be thoroughly understood—when it must appear to every unprejudiced mind, that the present duty, so far from aiding our home miners, will, if retained, prove the germ which, at no distant day, will be-come a most powerful and successful competitor for the copper mar-kets of India, America, and other distant parts of the globe, at pre-sent entirely in our hands. Previous to 1842, all copper ores im-ported into this country were smelted in bond, and the produce, or a quentity of copper, corresponding with the seasy re-expected. In a quantity of copper, corresponding with the assay, re-exported. In that year an Act was passed, admitting foreign ores on the same footing as our Cornish ores, to be used for home consumption or exported—paying, however, a duty proportionate to their richness. On the agitation, and before the passing of this legislative measure, the miners began to cry out the old cry of monopoly—ruin!—even with the duty for their protection; but, during the four years that this Act has been in operation, the home mining interest considerably advanced, and the manufacturers of brass and copper begin to complain of ill-usage. In a memorial, which is now going the round of Birmingham for signature, it is shown that Chili had been for many years an extensive and increasing customer for British goods, which were paid for by ores; and that these ores were, therefore, of great value to the British merchant—that the British miner had ample protection in the expense of raising the Chilian ores, and in the great cost of conveyance to the shipping—that, previous to 1842, smelting in Chili had nearly ceased, but that since then it has been most extensively resumed, and that in consequence, then it has been most extensively resumed, and that in consequence, instead of ores, copper bars and pigs are being sent to Europe—and that there has been of late years a great falling off in the export to the continent and to America in manufactured articles of copper and brass, in consequence of the same being supplied by France and Belgium, who have unrestricted trade in foreign copper and copper ore. It is also a well-known fact, that smelting-works are occeded with to an unprecedented extent in the United the promoters of which are making most liberal offers for the purchase of the rich ores of Chili. With these facts before us, is it not better to hold on to the copper trade of the world while we can, instead of listening to the futile fears of men who are blind to the real merits of the ca ne real merits of the case? especially when it is known, that these oh ores so complained of, cannot be smelted, without the admix-re of the power Cornish ores, and which, from that very circumstance, will always command a market equal in price to the richer foreign produce in proportion to their assay, and always with a balance largely in their favour from cheaper raising and less cost of freight and carriage. To protect our established foreign copper trade is to protect the home miner; and while taking foreign ores, which are paid for by British manufactures, our position as smelters, surrounded by the necessary materials—coal, limestone, &c.—will enable us to compete with, and supply, the world; while, should this obnoxious duty be retained, injurious alike to the miner and the manufacturer, a few years will see our foreign trade dwindled to a mere name, our boasted capabilities of no avail, and our present proud position in the metal markets of the world shrunk into insignificance when too late to rectify our error. insignificance when too late to rectify our error.

In last week's MINING JOURNAL, we had to record one of those dreadful calamities which so often depopulate our coal mining districts, and carry desolation and despair among a large portion of the survivors: we allude to the explosion in Mr. Parker's Colliery at Oldbury, where 20 lives were sacrificed; and in the same column was the record of another, at the Victoria Colliery, by which four lives were lost. It is our painful duty again, in our present Number, to record two more accidents of the same description, sacrificing 12 lives; one at Eastern Burgh, near Preston, and the other at Harver's Coppell Colliery. This reckless destruction of human life confirms the observations we have made, and followed up from time to time—that until some legislative measures are adopted, compelling the property ventilating, and the scientific and safe working of coal mines—so long will our columns teem with those melancholy recitals, and widows and orphans be multiplied to an awful extent. The evidence taken before the Coroner, at the inquest, on the sufferers at Oldbury, we have thought of sufficient importance to give at considerable length in another column, as showing the careless and ineffective manner in which the ventilation of the pit has, for years, been carried on; more than one wittion of the pit has, for years, been carried on; more than one witness deposed to having worked there on previous occasions, and that they left their work from the disgraceful and dangerous state of the levels—sometimes being so foul that they could scarcely breathe, and making them seriously ill. So strong was the evidence considered by the jury, that in one case they found a verdict of manslaughter against the agent, Mr. Hains, who was committed accordingly. It is only by some strong measures like this, that coal owners and viewers can be roused from their apathy, and be taught to look a little to the lives and limbs of those from whose labours they obtain their wealth: and we sincerely hope that Golabours they obtain their wealth; and we sincerely hope that Government will now seriously take up the subject, appoint a Commission, and establish a Board of Inspection, not merely to write a scientific report, but practically to investigate the subject in the mining districts, and establish a code of laws for the regulation of coal mining, which, while it will be compulsory on agents to follow, discovery and improvement, and relieve this labouring occupation of at least a portion of the present awful uncertainty of life.

It will be observed also, that a numerous meeting, arising out of

this unfortunate accident, has been held at Dudley; and a memorial, strongly expressive of the feeling of the inhabitants, drawn up, to be presented to Sir George Grev, the Secretary of State for the Home Department, praying for investigation: we trust these joint appeals will have their due weight.

In another column will be found some observations on the salt onopoly of Europe and the East Indies; and a large and influential meeting of bankers, merchants, and manufacturers, was held at Manchester, on Thursday last, for the consideration of the cruel, oppressive, and injurious tendency of the tax on salt in India—the result of which fully bears us out in the remarks which we have felt it our duty, on various occasions, to make. The gist of the re-solutions was to the effect, that the salt revenue in India was indefensible in principle, oppressive to the people, and ought to be abolished; that the system, under which salt was distributed, caused a deficiency of supply, enhancement of price, deterioration in quality, and much privation and suffering—that the monopoly is not only unjust and cruel to the population, but a direct contravention of the Charter granted the East India Company—and that a petition be drawn up, embodying the resolutions, praying that all duty on salt, whether manufactured in, or imported into, India, may forthwith ease and that the manufacture thereof by the company be disconcease; and that the manufacture thereof by the company be discontinued at the earliest practicable period—and that such petition be intrusted to the Members of the borough for presentation to Parliament. From the numbers who formed, and respectability of the meeting, who appeared to be but of our opinion, as to the injustice and impolicy of this impost, an idea may be formed of, the general feeling of commercial men, in all parts of the kingdom, on the sub-ject. We hope this petition will call the attention of the Government to the question; and, if the company will not take some steps to remove the obnoxious tax, and submit to have the abortion strangled with a good grace, that a legislative enactment will pass, giving the population of India some of the advantages possessed by their fellow subjects at home, and throw open a new source of employment for our shipping interest.

On Wednesday last, the MASTER of the ROLLS gave judgment in the case of Haines v. Taylor, respecting the Western Gas Com-PANY. The plaintiff possesses a very handsome house on the north side of the canal, the grounds running down to the banks, and a few hundred yards from the site on which the works are being erected on the south side : he is one of the alarmists we have before alluded to, and filed his bill for an injunction to restrain the defendants from proceeding with the erection. His Honour, however, considered that the mere building of the works could be no nuisance; and that, as the manufacture of gas would not commence before the month of March, the result was, that the damage was prospective, future, and contingent. The case was new in this respect; there was no instance in which the Court had interfered where there had not been works begun, and an injury done, which was capable of being made the subject of legal proceedings, except, perhaps, the case of Crowder to Tykkler. The Court would sometimes be so impressed with the apprehended danger as to stop works until a trial: it depended on the circumstances. The Court had no jurisdiction to determine whether a particular act was a misance, but it had imitalistic to the court had no purisdiction. whether a particular act was a nuisance; but it had jurisdiction to protect the rights of persons from the effects of a nuisance, which a court of law had no power to prevent. No case had been adduced in which it had been held at law that the manufacturing of gas was to be deemed a nuisance. He was persuaded that the progress of science might discover means of making noxious matenter into combinations in which they should not be hurtful: and there was the evidence of able men, that they could be governed and suppressed so far as they were not made to enter into other combinations in which they should be innocent. There were, indeed, scientific men who expressed their belief, that this could not be done; but, on the other side, there was th of scientific men, that it could be done. Mr. PALMER did not state the means by which he proposed to effect this desirable process, but we had experience that science had almost completed the prevention of these noxious and deleterious consequences. If so, were these works to be stopped, merely because they were in-tended for manufacturing gas? Could it be said beforehand that gas could not be manufactured without these deleterious conse-He could not blame the plaintiff for making the application at the present time: under the circumstances, he could not grant the injunction. The apprehensions of the plaintiff might turn

out in the end well grounded; but, on the other hand, he was far from saying, that the defendant might not be able to prevent any nuisance. He believed it to be possible. He declined to grant the injunction at present, but he must do so in such way as to give the plaintiff an opportunity of bringing the matter before the Court at a future time. He did not mean to declare, that there was no nuisance by refusing the injunction. His Lorentze articled the median to the future time. He did not mean to declare, that there was no nuisance by refusing the injunction. His Lordhur ordered the motion to stand over until after the works were completed—thus the plaintiff is left precisely in the position he was in previous to his dabbling in Chancery, with the pleasures of paying for nothing—viz.: having the privilege of proceeding by bill of indictment against the company, should the works, when in operation, prove a nuisance. The Master of the Rolls tooks liberal view of the facts of the case; and, while his decision appears to similate with company appears. while his decision appears to similate with common sense, and what we might expect from a verdict at common law, it is strictly within the rule of equity allowing the defendant to proceed with works which cannot be a nuisance, and giving an opportunity to the plaintiff to renew his complaint, if they eventually prove injurious.

In our columns of to-day will be found a report of the proceedings of the Asturian Mining Company, which holds out highly productive returns, if we may judge from the report presented by the directors. It appears that the total expenditure of the company has been about 75,000l., while no returns have yet been made: indeed, the iron-works and collieries on which the great dependance has been heretofore placed, cannot be expected to be in a state of profitable working for some months. In the meantime, it is highly satisfactory to learn that the Quicksilver Mines, taken up by Capt. O. H. MATTHEWS. (and who, we believe, returns to the Asturias, Satisfactory to learn that the Chickshiver Mines, taken up by Capt. O. H. Matthews, (and who, we believe, returns to the Asturias, with the view of taking their direction or management) are highly productive, and give great promise. The present instance affords one of the strongest proofs, if we may judge from the report of the directors, and the evidence we have otherwise acquired, that it is impolitic to act on the counsel or advice of those who are not practically acquainted with the subject on which they present to detically acquainted with the subject, on which they presume to advance an opinion—inasmuch, that Mr. J. Manny, C.E., the superintendent or agent of the company, and who has expended some £60,000, or thereabouts, on the iron-works, with some few thousands on surveys, advanced his opinions on the outset, that the Eugenia (cinnabar) Mine was both worthless and unprofitable. He has, however, altered his opinion; and we would advise, in all rie has, nowever, attered his opinion; and we would advise, in all similar instances, that gentlemen should confine themselves to those matters with which they are most conversant. The prospects of the company, we are glad to say, are looking well, with every prospect of the returns, on an outlay of 2700l., yielding a handsome dividend on the capital of 75,000l., and a further contemplated sum of 20,000l, while the returns of the quicksilver ore at surface are only estimated at a few hundreds.

At a moment when considerable interest is manifested as regards the construction of iron vessels, more especially for war purposes, the information lately received from La Plata is calculated to create some alarm as to the results. We will briefly narrate the substance of the information conveyed—while it will be our province, so far as appears to us to be feasible, to hold out that desideratum which must be obvious—viz.: the avoidance of the fractures produced, and, consequently, the splinters distributed, or spent among the crew of the vessel. The Gorgon steamer, which has lately arrived from La Plata, gives a sad account. It appears, that the effect produced on the hulls of the Harpy and Lizard steamers, by the shot from the batteries of La Ross, were most serious, and such as fect produced on the hulls of the *Harpy* and *Lizard* steamers, by the shot from the batteries of La Rosas, were most serious, and such as were far from being contemplated. It was expected, from the nature of the material, that any breach made by shot would leave a clean fracture, merely curling up the lips of the orifice, as is usual when fractures are caused in iron by the application of an ordinary force. The results, however, are quite different; as, instead of a clean fracture, large splinters of iron flew about in all directions on the hull below stretch readering the decrease free this. clean tracture, large splinters of iron flew about in all directions on the hull being struck, rendering the danger from this cause tenfold more imminent than that produced by the shot itself. Several splinters of this kind, struck from the hull of the *Harpy*, have been brought home by the officers of the *Gorgon*; and, amongst the rest, the splinter from the angle iron, which caused the death of Mr. Barnss, the clerk in charge—proving that the tendency to splinter is not confined to the thin sheet-iron of the hull, but to the heavier masses which compose the vessel. This circumstance would lead us to suppose that the application of the Kamptalican of Ludian. us to suppose that the application of the Kamptulicon, or Indiannubber substance, which was tested, if we recollect aright, in August last, at Woolwich, would bave the desired effect—inasmuch that, by the experiments made, Kamptulicon wall, or resistance, after the ball (32-pounder) had passed through the substance, 6 inches in thickness—the ball, according to the orifice formed, being 8 inches in diameter—was left in a comparatively perfect state, from the adhesion of the substance of which the wall, or resisting power, was formed—and which, on trial, was found to be impermeable; having obtained from the company one of the pieces tested, may be examined at our office. We understand the specific gravity, or weight, is about one-half that of oak; but this we have not tested. The cost, we understand, of the application of the Kamptulicon to avessel, of large calibre, would not exceed 2000l. to 3000l.; and while 30,000l. has been expended by Government in testing Lord Dundonald's experiments, we think a fair field is open to them in the present instance.

GOLD MINES OF GUINEA .- In a former Number, we alluded to the Gold Mines of Guinea.—In a former Number, we alluded to the fact of the Dutch Government intending again to undertake the working of the gold mines on the coast of Guinea, in Africa: several attempts have been made at former periods, all of which failed, either from the insalubrity of the climate, or from the inexperience of those employed. Last summer, one of the officers of the Colonial Department was sent into Saxony, to engage a staff of experienced miners, educated at the Royal School of Mines at Freyburg; and, from the advantageous offers made by the Dutch Government, the King of Saxony allowed a selection to be made, who will sail for Guinea at the commencement of the year under leave of absence for three years. The Dutch have agreed to convey them and their families to Guinea, provide them with every necessary, and, at the expiration of the three years, those who wish to return are to be sent back free tion of the three years, those who wish to return are to be sent back free of expense. It may not be, perhaps, generally known, that the miners in Saxony, Austria, Prussia, Sweden, and Russia, are not free agents—nor can they leave the mines without special permission from the Government, as they are considered the property of the state and the public.

FAUVELLE'S SYSTEM OF BORING AT THE ARTESIAN WELL AT SOUTH-FAUVELLE'S SYSTEM OF BORING AT THE ARTESIAN WELL AT SOUTH-AMPTON.—In consequence of the recommendation of Mr. Vignoles, and other gentlemen, at the meeting of the British Association in September last, to try Fauvelle's system of boring at the Artesian well at Southampton, a commencement has been made under the direction of Mr. J. Lankester, and which has fully proved the entire efficiency of that system, as regards its extraordinary speed in boring, and economy in working. An accident has happened, in no way connected with the system itself, which has prevented its full development, and this delay will continue all next week—the engines being required to work day and night to supply the reservoirs with water; the success of the plan has been completely established.

HOT AND COLD BLAST IRON.—The Scottish Guardian, of Tuesday, Hot and Cold Blast Iron.—The Scottish Guardian, of Tuesday, after quoting our notice of Mr. Stephenson's experiments, adds—"We have been informed of an experiment of the same nature, which was performed at Monkland Iron-Works last week. A railway bar of malleable iron, or 75 lbs. per yard, made at these works, where hot-blast is employed, was subjected to the following severe test:—The bar was placed betwize two points 4 ft. apart, and an iron ball of upwards of 30 cwts was dropped upon it from a height of 30 ft., which only had the effect of bending the bar. This test is considerably more trying than iron of that size is usually submitted to, and proves the superiority of the malleable iron made with hot blast."

PROGRESS OF FRENCH MINING INDUSTRY.

The Moniteur-the official organ of the French Government-contains this morning this notice, published by order of the Minister of Commerce " Discovery of a Mine of Mercury at Monterey, California,-Dispatches from consuls set forth that a mine of mercury has just been discovered near Menterey, on the territory of the mission of Sainte Claire. The working of this mine has already been commenced; and the results obworking of this mine has already been commenced; and the results obtained, with most imperfect means, have, it is certified, surpassed the most favourable calculations. The extraction of ore is very easy, and the yield 25 per cent. of mercury. Fuel is plentiful in the neighbourhood, and costs nothing more than for cutting and conveyance. The precarious situation of California, and the war in which Mexico is engaged, will, without doubt, render the formation of a company, for the working on a grand scale of this mine, extremely difficult; but it is stated, that the products, which are considerable, are easily realised, on account of the immediate vicinity of Mexico, where layer quentities of mercury are consumed." This which are considerable, are easily reashed, on account of the infinitume vicinity of Mexico, where large quantities of mercury are consumed." This paragragh may be worthy the attention of such of your readers as are interested in Mexican mining matters.

The intelligence of a terrible explosion in the silver mine of Idria, near Laybach, in the Austrian territory, is confirmed. Sixteen men, it appears, were killed, and the shaft had to be closed.

King Louis Philippe is stated to be reasonably responsible in a great

King Louis Philippe is stated to be personally responsible in a great measure, for the excessive dearness of iron in this country. His Majesty possesses personally, or has the control over, such an immense number of forests, that he is able to fix the price of wood in the market; and, he being a shrewd money-making fellow, takes good care to fix that price exceedingly high. Most of the iron furnaces in France being heated exclusively by wood, it follows paturally enough that when they may an enormous a shrew money-making renow, takes good care to his that proceedingly high. Most of the iron furnaces in France being heated exclusively by wood, it follows naturally enough that, when they pay an enormous price for their wood, they must clap it on to the iron they fabricate, so as not to be losers. This they do; and thus it arises that Louis Philippe takes a good slice in the odious impost which the excessive dearness of iron

causes to be levied on the French people.

I omitted to state, in my last, that the Marine Department had advertised for contracts, to be taken on the 5th and 12th of December next, for the supply of several million kilogrammes of coal, and several million kilogrammes of different descriptions of iron, to the establishments at Ne-

wers, Toulon, &c.

Messrs. Schneider and Co., of the iron-works at Bazeilles, in the departnent of the Ardennes, have published in the Siecle a long letter, in answer to the statements of M. Leon Faucher, relative to the inability of the iron-masters to fulfil their engagements. It would take too much space to translate this epistle; but the substance of it will be gathered from the following summary of M. Faucher's remarks upon it:—Messrs. Schneider contend that the delay that has taken place in the execution of the orders they had accepted from the St. Germain Railway Company was put owing they had accepted from the St. Germain Railway Company, was not owing exclusively to them, but mainly to the company's agents making frequent modifications in the plans of the tubes. In reply to this, M. Faucher cites modifications in the plans of the tubes. In reply to this, M. Faucher cites a letter from the engineer of the company, stating that it is perfectly false that any modification had been made in the plan of the tubes furnished to the ironmasters two months before the treaty was entered into. The dimensions of the tubes were minutely indicated in the treaty and the plans; and it not true that Messrs. Schneider had, as they pretend, to wait for a model, for no model was ever made, or ever promised. But this was previous to December, 1845; and M. Faucher says that, in that month, a new contract was entered into, by which Messrs. Schneider engaged to deliver, before the 1st of May, 1846, the tubes of 63 centimetres, and before the 1st of July, the tubes of 38 centimetres. This contract, says M. Faucher, has not been fulfilled; for though Messrs. Schneider assert that they have fabricated the whole of the 63 centimetre tubes, they had, on the 1st of May, delivered only 86 tubes, instead of the 1150 they were bound to do; and that, at the end of October, they had only delivered 695, of which a great number were full of defects, and of which only 150 were in the workshops, d'ajustage. There remained then to be delivered 455 great tubes; whilst as to the smaller enesser in the fabrication of which Messrs. Schneider. great number were full of defects, and of which only 150 were in the workshops, dajustage. There remained then to be delivered 455 great tubes; whilst as to the smaller ones—in the fabrication of which Messrs. Schneider admit that there is no difficulty—they had not delivered a single one. Besides this, Messrs. Schneider's contract required that the tubes should not only be delivered, but adjusted in the time specified; but the fact is, that their tubes are made of a material so bad, that they are extremely difficult to adjust. They complain that the machines they caused to be supplied, after those of Whitworth, employed generally in England, took 10 hours to do what they had calculated could be done in less than two—but that is their affair: and oesides, the tubes of Fourchambault, made of softer is their affair; and besides, the tubes of Fourchambalt, made of softer material than theirs, are easily adjusted to the extent of eight per day—so that in every respect Messrs. Schneider are responsible for the breach of their contract; but it appears that they assert that no English establishment could have made the tubes in less time than they did, or rather neglected to do. To this strange assertion, M. Faucher says, that the St. Germain Company has received from an English establishment an offer to supply, in these weeks or a mouth from 500 to 1000 these ready adjusted. glected to do. To this strange assertion, M. Faucher says, that the St. Germain Company has received from an English establishment an offer to supply, in three weeks or a month, from 500 to 1000 tubes ready adjusted He shows, besides, that even a French establishment—that of M. Emile Martin—had made and delivered 150 tubes in three months, and had offered to supply 3000 in a year. The English establishment would have supplied the 3000 in three months. Thus, says M. Faucher, at the rate of 545 tubes in 20 months, which is all they have accomplished thus far, Messrs. Schneider would require more than nine years to execute a contract that M. Martin can execute in a year, and an English company in three months. At the commencement of their letter to the Siecle, Messrs. Schneider pretended that they had been duped into accepting the contract of the St. Germain Company, and that it had been taken by one of their agents. M. Faucher calls this a "fable;" and certainly nobody on earth will believe that such men as Messrs. Schneider allow the affairs of their vast establishment to be so conducted; but, to prove it a fable, M. Faucher cites a letter, dated the 6th of March, 1845, from Messrs. Schneider, in which they state that they had brought up their manager, M. Bouting, to Paris, expressly to treat the affair of the tubes. To this, M. Faucher might have added, what everybody in Paris knows, that this very Mr. Bouting is one of the keenest and most knowing men of business France possesses—the very last man, in fact, in the whole kingdom to allow himself to be duped into an unprofitable transaction. M. Faucher, however, admits that Messrs. Schneider treated for the tubes for 40 fr. less per ton than was demanded by the other ironmasters; but says that, even at that price, they were 95 fr. more than those of England. At this present time, M. Faucher, however, admits that Messrs. Schneider treated for the tubes for 40 fr. less per ton than was demanded by the other ironmasters; but says that, even at that price, they were of contract at all, but he states positively that the delivery of the machines was allowed to be delayed expressly on account of the inability of Messrs. Schneider to deliver their tubes.

Schneider to deliver their tubes.

Such is an epitome of Leon Faucher's answer to Messrs. Schneider; and I think it will be admitted that it is full and complete. It shows the total inability of the ironmasters to fulfil their engagements;—and yet, like the dog in the manger, they will not allow others to do what they cannot. But, as if his demolition of the unhappy Schneiders were not sufficient, M. Faucher states other facts, which show the deplorable effect of the iron monopoly. Thus, he says that the Northern Railway Company has only received eight tenders, instead of 37, that ought to have been delivered towards the supply of an order for 123 received by Messrs. Farcot. Steblin. received eight tenders, instead of 37, that ought to have been delivered towards the supply of an order for 123, received by Messrs. Farcot, Stehlin,
and others. The reason is, that the constructors cannot obtain the springs,
iron, &c., that they require. Messrs. Schneider du Creuzot had engaged
to deliver before this, to the same railway, 10 locomotives—not one has
been delivered, entirely on account of the scarcity of tôles. M. Emile
Martin had engaged to deliver, to the same railway, 60 croismens de voie,
and 85 plate-formes. On account of the scarcity of iron, he has only been
able to deliver 21 of the former, and 23 of the latter. Messrs. Buddicombe (they are Englishmen established in France) undertook to deliver
96 croismens to the same railway; but, in consequence of the scarcity of
iron, have only delivered 15. Messrs. Buddicombe, Stehlin, and Emile
Martin, write, says M. Fancher, pompous letters to the Moniteer Indus-Martin, write, says M. Fancher, pompous letters to the Moniteur Industriel, offering to receive unlimited orders from railway companies for wheels; but on account of the scarcity of iron, these very gentlemen are behind hand in their supplies to the Northern Railway, to the extent of materiel for 300 waggons. In fact, every branch of industry suffers directly or indirectly from the scarcity of iron; and as M. Faucher smartly

observes, "the ironmasters take from us 400 francs per ton for iron, but only give us half rations, as in the time of famine."

It appears that the ironmasters have been terribly frightened by M. L. Faucher's letters—of all which the *Mining Journal* has now received a summary. They have written long and fierce epistles to the Siecle, in reply thereto; but the editor of that journal has refused to insert them. He however, says that the ironmasters may apply to the tribunals to compel him to do so, if they please; and he adds that their monopoly is so profitable, that they can afford to spend a little money in law. I hope to heaven they will prosecute the Siecle, for the prosecution will be sure to make public the extent of the monopoly, which only needs to be clearly known to the people to excite universal indignation.

St. Dizier letters, of the 20th, state that the fontes blanches (referred to in the less constained) were not for Grant less stated in the Mining Lorental.

in the last quotations) were not for Gray (as stated in the Mining Journal last week), but for St. Dizier. The bargain was for 1,000,000 kilos. It was followed by another for 400,000 kilos, at 195 fr., taken at the furnaces. On the 15th prices were—fers battus à la houille, 390 fr. and 400 fr., for Paris, 400 fr. and 410 fr. for the country; fers laminés, of St. Dizier furnaces, 400 fr.; some transactions took place at 410 fr. and 415 fr.; fers laminés of furnaces of the Haute Marne, 390 fr.; fils de fer, 6 fr. to 6 fr. 20 c.; fontes blanches, delivered at St. Dizier, only a nominal course, at 195 fr. to 200 fr. At the fair at Chalons-sur-Saone, of the 18th Nov., the fontes to 200 fr. At the fair at Chalons-sur-Saone, of the 18th Nov., the fontes fines de Comté (1st quality), were 240 fr.; fontes blanches, of the Haute Marce, à l'air froid, 210 fr.; ditto, à l'air chaud, 200 fr.; one lot, however, à l'air froid, went at 217\frac{1}{2} fr.; fers du Bourgogne et du fin de Comté, 510 fr., fers martinets, 620 fr.; fers à la houille de Bologne, 430 fr.; fers essieux ditto, 440 fr.; fers ditto, ditto de Rimancourt, 440 fr.; fers cornières, 460 fr. The Company du Chatillonais sold 300,000 kilos of fers marchauds au bois at 410 fr.; the Terre Noire Company maintained its prices at 340 fr., delivered at Lyon. The fers roches au bois of the Haute Marne were without offerers; fers marchands were offered at 475 fr., and fers martinets at 560 fr.—Paris, Tuesday.

ZINC TRADE OF BELGIUM .- The produce of the ores of zinc, and the smelting and manufacture of the metal, is becoming one of the most important items of Belgian industry-developing the mineral riches of the state, and giving employment to a large amount of the population, particularly in the province of Liege. On the first attempts to carry out the successful manufacture of this metal, many difficulties were met with, considerable loss was sustained, and much enterprising perseverance required to render it prosperous: experience has, however, overcome those difficulties, and the manufacture is becoming one of considerable magnitude. The following are some of the details:—the Vieille Montagne is at present looked upon as the head of the zinc establishments in Belgium. In 1807, looked upon as the head of the zinc establishments in Belgium. In 1807, the Abbé Douay had granted to him the concession of the calamine mines of Moresnet, which supply the company, and he devoted himself to improvements in the make of zinc; at that period, the furnaces and crucibles were much smaller than at present, and the metal obtained was of very inferior quality. From the obstacles he had to contend with, and heavy expenses, the Abbé failed in 1815, and transferred the concession to the Chaulet Company, after expending about 76,000L, and at last even paying his men, by disposing of a rare collection of gold and silver medals. The new company having become established with nine furnaces, began to produce from 140 lbs. to 160 lbs. of zinc per day of a much better quality. Other companies started; and, in 1831, 5000 tons of washed calamine were produced. The Vicille Montagne was established in 1835—and so great produced. The Vicille Montagne was established in 1835—an was the increase that, in 1840, 18,000 tons of ore were extract factories of Angleur and Moresnet were contructed in 1836, and have now 36 furnaces at St. Leonard's, 20 at Angleur, and 20 at Moresnet—being capable of turning out 5000 tons of zinc per annum. The most productive veins are found along the borders of the river Meuse; they consist of tive veins are found along the borders of the river Meuse; they consist of silicates and carbonates, in a matrix of white clay and hydroxide of iron. The factory of Malliere belongs to the Nouvelle Montagne Company, having 65 furnaces, capable of producing 4000 tons per annum—the Namur and Liege Railway runs through the property of this company; they have also erected eight furnaces at Prayon, with a flatting mill. The cost of raising the ore is 4s. 2d. per ton at Moresnet, worked open cast, and from 5s. 10d. at Engis, from levels underground.

Ss. to Ss. 10d. at Engis, from levels underground.

Warlich's Patent Fuel.—We have, on two or three former occasions, called the attention of the public to the new fuel manufactured under a patent granted to Mr. Warlich, and which is now being worked by the "Patent Fuel Company." From numerous testimonals which we have seen, as well as from the official reports of trials, ordered by the Lords of the Admiralty, the superiority of this fuel over coal is thoroughly established, and is now adopted to a very great extent by the steam-packets of the various navigation companies, as well as those of her Majesty's navy. In its consumption on board ship, there is a saving effected of 25 per cent. in shipping—there being no dust, and consequent waste, thus 100 tons from this country will give 100 tons in the East Indies—30 per cent. in stowage, and about 20 per cent. in actual consumption, as compared with from this country will give 100 tons in the East Indies—30 per cent. in stowage, and about 20 per cent. in actual consumption, as compared with the best steam coal. These are acknowledged and well-known facts; and it is, therefore, but justice to state, that the fuel consumed by the Diamond Steam-Packet Company is not that of the Patent Fuel Company. At a meeting of the shareholders of the former company, a short time since, it was stated, that "patent fuel" cost 7s. or 8s. per trip more than Welsh coal, and to which the non-declaration of a dividend was generally attributed; but as Mr. Parkin, a director, did not state "whose" fuel was employed on board the "Diamond" Company's boats, it very naturally goes before the public as a sweeping assertion against all artificial steam fuel, and one which certainly cannot be applied with truth to Warlich's; the latter is decidedly superior in evaporative powers, economy of stowage and consumption, its superior cleanliness, and absence of danger from spontaneous combustion, to every description of coal. This fuel is used and highly appreciated by her Majesty's yachts; and has for some time past, and is now being sent out by the Lords of the Admiralty to various stations in the East Indies and the coast of Africa; and the Avon steamer, lately returned from a surveying expedition in the latter country, has recorted most food of the Admiralty to the very discountry, less recorted most food of the Admiralty to the very discountry of the very discountry in the country is a contract of the Admiralty to the very discountry of the very of the very discountry of the very discountry of the very di rous stations in the East Indies and the coast of Africa; and the Avon steamer, lately returned from a surveying expedition in the latter country, has reported most favourably of the use of Warlich's patent fuel, which she took out, and which had been attended with the above advantages in an eminent degree. We can, with every confidence, state the preference given by the Board of Admiralty to this fuel—having, in addition to other documents, this week seen an order from them for a very large quantity, to be delivered immediately. Mr. Warlich has obtained another patent, for converting this fuel into a pure and ponderous coke, free from sulphur, and of high expressive power which we shall notice on a future recession. and of high evaporative power, which we shall notice on a future occa-

RAILWAYS AND OTHER PUBLIC WORKS. A Parliamentary return has RAILWAYS AND OTHER PUBLIC WORKS,—A Parliamentary return has just been issued, moved for by Mr. William Gibson Craig, giving a detailed account of the estimate of cost, the capital stock, and the amounts authorised to be borrowed, according to the various Acts, of all the railways and other public works sanctioned by Parliament in the last session. For railways, the total estimated cost of the construction of all the lines so sanctioned is 90,789,274.—while the capital stock is 78,382,390£; and the sums authorised to be borrowed amount to 30,597,595£. For navigation and canals the estimated cost of construction is 297,950l; the capital stock, 170,000l; and the sums authorised to be borrowed, 166,600l. For ferries and docks, the estimated cost is 2,996,683L; the capital stock is 1,590,000l; and the sums authorised to be borrowed, 1,913,000l. For piers and harbours, the estimated cost is 263,031l; the capital stock, 174,000l; and the sums authorised to be borrowed, 86,266l. For bridges the estimated cost is 130,000l., and the sums authorised to be borrowed are 60,000l. For roads the estimated cost is 13,400l; and for miscellaneous the estimated cost is 186,358l; the capital stock, 270,000l; and the sums authorised to be borrowed amount to 140,000l. The capital stock, and the sums authorised by all these Acts, to be borrowed for public works during the last session, may be thus shortly stated:—

 Railways—Stock
 £78,389,390

 To borrow
 30,597,585

 Navigation and Canals—Stock
 170,000

 To borrow
 166,000

 Ferries and Docks
 1,590,000
 Ferries and Docks Stock
To borrow
Piers and Harbours—Stock
To borrow
Bridges—Stock
To borrow
Roads—Stock
Miscellaneous—Stock
To borrow 140,000

Total authorised to be raised as stock, and to be borrowed .. £113,692,991 A large failure is understood to have taken place in the iron-market of Glas gow. The liabilities of the party, chiefly arising from speculative transactions are said to amount to nearly 100,000*l.—Times*.

Proceedings of Public Companies.

MEETINGS DURING THE ENSUING WEEK.

MEETINGS DURING THE ENSUING WEEK.

Tais Day ... Oxford and Worcester Extension and Chester Junction Railway—Mason's Hall Theren, at Three.

South Wheal Trelawney Mining Company—offices.

Monday ... Grand Junction Canal—Crown and Anchor Tavern, at Twolve.

Meavy Consols Mining Company—Tavistock, at Four.

Wheal Roborough Mining Company—Tavistock, at Three.

Hungerford Market Company—offices, at One.

Tubbat'. ... Wheal Rucketts Mining Company—at the mine.

St. Cleer Coincis Mining Company—at the mine.

Caradon Consols Mining Company—at the mine.

Norther's and Southern Connecting Railway—London Tavern, at One.

Wednerday ... Regent's Canal Company—offices, at One.

Hursdbay ... Mines Royal Company—offices, at Twelve.

Hallar Waterloo Bridge Company—offices, at Twelve.

Waterloo Bridge Company—offices, at Twelve.

Waterloo Bridge Company—offices, at Invelve.

Waterloo Bridge Company—offices, at One.

Waterloo Bridge Company—Tavistock, at One.

[The meetings of Mining Companies are inserted among the Mining Intelligence.]

BRISTOL AND POOLE HARBOUR RAILWAY.

BRISTOL AND POOLE HARBOUR RAILWAY.

A meeeting of the promotors of this undertaking was held, at the White Lion Hotel, Broad-street, Bristol, on Wednesday last,—Mr. Alderman Pount-New in the chair. The Charrallan, in opening the proceedings, said the meating had been called for the purpose of giving information in reference to the proposed formation of a line of railway between Bristol and Poole. At present there was no communication between the port of Bristol and the south of England, except by a tedious navigation round the Land's-end, or by means of slow stage waggons. The former mode was unusually tardy and expensive; and, if some more expeditious mode of transit were provided, the dealer might have the advantage of being able to dispose of his goods, and turn his money three or four times over. It is now an axiom universally admitted, that time is money; and as time thrown away was money thrown away, it became of importance to provide a good means of communication. The waggon communication was just as objectionable—the waggons were unloaded at Stallbridge, half-way between Poole and Bristol, and offentimes goods remained for weeks before they reached their place of destination. At present all the railways from the west of England ran to London, as if that were the only place worthy of consideration. The proposed line would cross them all, running from north to south, while they ran from east to west. It would derive all the railways from the west of England; but Bristol had nothing to fear from that. The chairman next referred to the pre-eminence of Bristol for the manufacture of crystallised sugars, black bottles, and finit-glass—and said, if by opening readiar communication with other parts of the kingdom they increased the demand for their manufactures, they would have fresh manufactories established in their city, and, as a consequence, increased employment given to its population. He then alluded to the importance of the projected line as a means of enabling the Somerset coal-fields to supply the sou and the traffic, as well from goods as from passengers, must be great.—Resolu-tions were passed approving of the line, and pledging the meeting to support it.

BANKING IN INDIA.

The state of the banking system in India is a subject which at all periods, and especially at present, calls for close attention in this country. Considerable interest will, therefore, attach to the following particulars, which have now

and especially at present, calls for close attention in this country.

Leading the interest will, therefore, attach to the following particulars, which have now been drawn up for the first time:—

It appears that the gross capital employed in banking operations in India is 9,452,9034, and that unwards of 4,000,0004. belongs to the chartered banks of Bengal, Bombay, and Madras, which are established under the sanction of the court of directors of the East India Company, with the approbation of the board of commissioners for the affairs of India. The aggregate paid-up capital of these establishments, including the last half-year's profits, is 2,006,1411.; and their deposits and circulation, 2,281,9461. Of these sums, 1,708,4361 is retained in bullion, or invested in the Government securities; and the remainder—viz., 2,579, 6511—employed as advances in ioans and discounting bills at the chief town of each presidency. As the banks are prohibited from dealing in foreign exchanges, their operations are necessarily confined to the possessions of the East India Company.

The other 10 are joint stock banks, established on the same principle as similar institutions in England; and their aggregate paid-up capital, including profits and reserved funds, is 3,539,7271; and their deposits and other liabilities, 1,625,0892,—making together a banking capital of 5,164,8161; of which sum 682,3981, is retained in cash and Government securities; and the remainder—viz., 4,482,4181.—employed in advances on various descriptions of securities, discounting bills, and in carrying on exchange operations with India, China, and England, under the management of directors elected by the shareholders.

PATENT FUEL COMPANY-(WARLICH'S PATENT).

PATENT FUEL COMPANY—(WARLICH'S PATENT).

TO THE EDITOR OF THE MINING JOURNAL.

Str.,—I noticed in the West Kent Guardian, of the 14th inst., a report of the meeting of the Diamond Steam-Packet Company (and which I fear may have been copied into your and other newspapers), in which it is stated by a Mr. Parkin (a director of that company) "that patent fuel costs 7s. or 8s. par trip more than the Welsh coal;" and at that meeting the reason for the non-declaration of a dividend for the past year, was generally attributed to the loss incurred by the use of patent fuel.

I am now instructed to inform you, that the patent fuel alluded to in that report, is that of "Wylam's Steam Fuel Company," and which is totally different to this company's patent fuel, which is so much approved of on board her Majesty's yachts and navy, and the Peninsular and Oriental Steam Navigation Company, &c. &c.—As the publication of the statement alluded to, and which does not specify whose fuel it was, may be injurious to this company. I will thank you to insert this letter in your next publication.

I am, Sir, your obedient servant, W. N. De Matros, Sec. Patent Fuel Company (Warlich's Patent), 15, St. Mary Axe, London, Nov. 24,

PROFESSOR SCHONBEIN'S GUN COTTON.

PROFESSOR SCHONBEIN'S GUN COTTON.

TO THE EDITOR OF THE HINING JOURNAL.

SIR,—The time is near when the interest arising from scientific investigation, or the curiosity of the public, will be drawn to the practical utility of this substance; and as the legal representative of Dr. Schönbein in England, I feel called upon to direct the public aright, respecting the source whence it will be legitimately issued. Dr. Schönbein was urged to secure for his family the benefits which might result from his discovery; and it was suggested to him, that this would be most effectually obtained by inducing some leading house in the powder trade to undertake the manufacture of it, conjointly with gunpowder—so that, wherein it should win a preference through its powers and properties, it might be recommended, and, at the same time, yield precedence to powder, in cases where it might prove inferior in utility. With this design, it was resolved to challenge the scrutiny, and approval, or rejection, of some powder firm of long standing and known reputation for extensive operations, not only for the purposes of the public generally, and of foreign countries, but as also partaking largely in contracts with Government for powder. It was to the Messrs. Hall, of Lombard-street, and Faversham, Kent, that the matter was offered; and with an openness to conviction that did them credit, they the Messrs. Hall, of Lombard-street, and Faversham, Kent, that the matter was offered; and with an openness to conviction that did them credit, they agreed to enter on the examination of this formidable antagonist to their own object of produce. The powers and applicability of this new substance, tried before them in every way they could devise to test it severely, resulted in their acknowledging it a projectile power, greatly superior to gunpowder, and in their coming to arrangements with Dr. Schönbein for the manufacture of it under the patents he had secured. It remains only, therefore, to say, that in order to carry out this agreement, I am empowered to state (for Dr. Schönbein), that extensive arrangements are being rapidly matured for the manufacture of the cotton by this firm; and, in order to meet the very proper objectious—"that the substance may be mistaken for unprepared cotton"—It has been determined, in compliance with Dr. Schönbein's suggestion, that it should be issued to the public in a dyed state; variety in the colours will serve to indicate the different uses for which it will be intended.

THE LEGAL REPRESENTATIVE OF PROFESSOR SCHÖNBEIN.

NEW ATMOSPHERIC RAILWAY IN FRANCE.—M. Gautier (the inventor of a new system of a tamospheric railways) has proposed the project of establishing an atmospheric line, so as to unite Paris with the delightful and much-frequented villages of Passy, Auteuil, and Boulogne. The trip is to be trade in 10 minutes, and the charge for each passenger 4d. from Paris to Boulogne. The length of the line wide it it kilometree; and, according to the estimate of the inventor and projector, the outlay will be 4,000,000 fr., or 160,000. He also proposes to establish a tugging line on the same principle, should the above be accepted, which will draw up the barges from St. Cloud to the port or quay of St. Nicholas, in Paris, a desideratum which has long been wanting for the navigation of the Seine, and the cost will not exceed the former.

Original Cerrespondence.

THE GASES OF THE BLAST FURNACE.

THE GASES OF THE BLAST FURNACE.

Sin,—I must once more request that "Ferreus" will himself be accurate, before he charges me with error. Earthy matter, introduced into the blast-furnace, is comprised usually in the three substances commonly known as lime, clay, and sand. Now, referring to my original statement, 31 lbs. of aluminum combine with 28°2 of oxygen, to form 59°2 lbs. of the earth called clay; 74 lbs. of calcium combine with 28°8 lbs. of oxygen, to form 102°8 lbs. of lime; and 89 lbs. of silicon combine with 95 lbs. of oxygen, to form 102°8 lbs. of lime; and 89 lbs. of silicon combine with 95 lbs. of oxygen, and 22 of carbon, to form 182 lbs. nearly of the earthy matter called limestone. Hence, the bases of aluminum, silicon, and calcium, in the respective quantities of 31 lbs., 89 lbs., and 74 lbs., produce, when combined with their respective doses of oxygen, an amount of earthy matter equal to the sum of 59°2 + 184 + 182 = 426 lbs. nearly,—or deducting 22 lbs. of carbon, combined with the limestone, there remains a total of 404 lbs. of clay, sand, and lime, which, with 285 lbs. of peroxide of iron, make up the whole working burden to 689 lbs.; and the earthy matter is to the iron as 404 to 200—i. e., as 2 to 1, or 66 to 33, nearly. Had "Ferreus" taken the pains to assign to the 194 lbs. of earthy bases, their proper combining amount of oxygen, so as to produce what is commonly called the earthy part of the burden, composed of clay, sand, and lime, he would not again have exposed himself to the imputation of captious and superficial criticism.

Next, I nowhere stated, that the experiment was continued for a week:

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and lime, he would not again have exposed himself to the imputation of captious and superficial criticism.

Next, I nowhere stated, that the experiment was continued for a week; and, therefore, although the furnace might, during the period of observation, have been making at the rate of 50 or 56 tons per week, it does not follow that it continued to do so: in fact, it did not. Again, 25 tons of air consumed is the supposed average, per ton of iron, in the Welsh furnaces; and by no means applies to Darkhill, where, from the great infusibility of the materials, it is probable that 30 tons of air may be required to effect the reduction of one ton of iron.

I am obliged to "Ferreus" for his apt illustration of "back-water;" the narrow stream of blast from the hearth, impinging with great velocity on entering the wide channel of the boshes, and causing the gases from the upper regions of the furnace to descend along the sides of the boshes. I have not proved the passing off of the free oxygen at the furnace top; but I cannot imagine by what other outlet it may make its escape. Whatever quantity of oxygen enters a blast furnace, beyond that which can be taken up by the materials, must go off somewhere; and whatever quantity of salt, or sugar, or any other matter, we may mix with water, beyond the point of saturation, must either sink to the bottom, or swim on to the top, according as its specific gravity is greader or lesser than that of water. I never said anything about their being a good sale for my cement, which is a gratuitous assumption upon the part of "Ferreus." I imagine that a man may make good cement, or paint beautiful pictures, without selling either. As "Ferreus" is a classic, he will, perhaps, understand χαλκεον better than "Aheneus."—Robt. Musher: Coleford, Nov. 24.

CENTRAL HEAT.

SIR,—The wide field of the earth's surface having been long before as well as since the days of Whiston, a common chase, through whose wilderness philosophers may hunt at pleasure the fera nature of the imagination, philosophers may bunt at pleasure the fera nature of the imagination, without the danger of subjecting themselves to any law—I cannot have the least objection to Mr. Mushet's following the usual theory of the stratification of rocks; and proving it, as it is usually proved, by reference to what we know nothing about—a process going forward at the bottom of the sea. That great and lofty continents have been elevated, and corresponding routions possibly depressed we admit in order to account for

the sea. That great and lofty continents have been elevated, and corresponding portions possibly depressed, we admit, in order to account for certain geological appearances—we do not know what else to say about them; but we must stop here, and not suffer ourselves to be hurried away into the notion, that this thing is constantly going forward.

The whole observations of geology go to prove a state of succession,—and I no more believe that there is a coal field forming in the ocean from sea-weed and drift timber, than that a carboniferous stratum will be founded by the London smoke in the declivities of Highgate-hill. It is the weakness of limited men to explain by what they see, what never has been seen. We must stretch our faculties to much loftier conceptions—we must imagine the earth something enormus—double, perhan; its present diameter we must stretch our accustes to much lotter conceptions—we must imagine the earth something enormous—double, perhaps, its present diameter—much less consistent, fuming with inward heat, teeming with hot fog and prolific vapour, surrounding a mass which has gradually solidified and concentrated its bulk, either by the loss of heat, or the act of gravitation to its centre. In some such state of its transition—from, perhaps, a mere nebulous mass, 10,000 times its present volume—we may imagine the elements of coal fields to have found their stately growth. How these elements have attained their present share we havely an conjecture. ments or coal neids to have found their stately growth. How these elements have attained their present shape, we barely can conjecture. Why are the formations so merely local? If once continuous, where are the disrupted fragments? Were it not for the impracticable fact of vegetable evidences within them, I might conceive the whole mass to have been merely stratified by electric currents from some homogeneous slime. The uniform position of certain earths confirms this supposition. Indeed, it is most probable the whole body of the earth has been solidified from gaseous elements. We know water, wit a clamatic in the approximation of the contraction of th most probable the whole body of the earth has been solidified from gaseous elements. We know water, or its elements, in three separate states—the gaseous, the fluid, the concrete: metals which are our densest bodies we know, likewise, in the three states—the gaseous, the fluid, the concrete; and we are, therefore, bound to believe the whole globe is but a concretion, gathered from all space, perhaps, by an electric current, which we name gravity, to a common centre. Thus, hydrogen, which we call a light body—and of which probably the upper region of our atmosphere is formed—is only, in that ascent, gathering to the negative pole; while oxygen solidifying in the masses of the earth, obeys the positive law. Is it improbable that, when "the Spirit of God moved on the face of the waters," the mass of water was immensely greater than it is now, covering, to a greater ble that, when "the Spirit of God moved on the face of the waters," the mass of water was immensely greater than it is now, covering, to a great depth, the whole surface of creation? that decomposed between these poles the hydrogen flew upwards "above the firmament,"—while the oxygen, becoming solidified with the metallic bases (whatever these may be), "the dry land appeared." The revolution of the earth around its axis produces, perhaps, our own electric currents. The onward motion which causes that revolution, and carries us in our orbit, is probably the repellant or the attractive act of some more distant electric pole.

F.

FAUVELLE'S BORING APPARATUS.

FAUVELLE'S BORING APPARATUS.

Sir.—On the first public description of Fauvelle's new method of boring by hollow rods, through which the strata displaced is washed up by currents of water, I fully expected to hear that numerous landowners would have availed themselves of the so-stated cheap, expeditious, and certain method of searching for minerals; and that we should have seen, ere this, accounts of the results of numerous experiments. I am, however, surprised to find, that the subject appears to be almost lost sight of; and I should be obliged if you, or any of your correspondents, could inform me where I can hear of the patentee, whether there is any company formed for carrying out the objects of the patent, and whether they, or the patentee individually, or any other party, is prepared to undertake any description of boring work with the new apparatus.

New Red.

Macclesfield, Nov. 24.

THE POTATO DISEASE.

To all your renders who are enters, I presume any fact connected o all your renders who are enters, I presume any fact col-otato, under its present disease, will be acceptable. My vout what seems to me to obtain, as far as I have had is, to throw out what seems to me to obtain, as far as I have had an opportunity of ocular inspection, in order that others in different, but similar, localities to myself, may either corroborate or contradict it. It seems to me that, under the smoke of calcining houses, engines, and factories, throwing out their various gases, that are more or less injurious to all soils, as they are arsenical, or otherwise poisonous, the potato has best survived the recent attacks. May it not be, that such gas may neutralise the deleterious effluvia of the air; or, supposing the devourer to be an insect, that the air, partially poisoned by such gases, may kill it, to the preservation of the potato? The first place I can point at is central to the numerous stacks of Tincroft and East Crofty Mines; again, nearest the burning-houses of St. Agnes Cousols, and the mine stacks; and as well in the valley below Gwennap, by the different furnaces for the burning of pyrites, in the production of arsenic and acids.

Should the disease reapnear. I have made up my mind to treet a few

duction of ariente and acids.

Should the disease reappear, I have made up my mind to treat a few rows with a smoking—from different mixtures being drawn along between in vessels, from which the fumes might evolve among the leaves. Perhaps your correspondent, Dr. Murray, whose field it more particularly is, would kindly assist in prescribing the ingredients to produce them on a large and cheap scale—such as nitrons and sulphurous gases, sulphuretted hydrogen, carbonic acid, and chlorine: carbonic acid, being produced,

FUEL FOR RAILWAYS.

Sir,—Would you oblige me by answering the following questions:—
re coals used for the locomotives on railways in England, or "a compotion?"—and in what proportions? Is this composition patented?—and
hose patent is best? Is it applicable to the general purposes of steam
avigation, &c.? Can a copy of the patent be obtained?—and at what exense? Is this composition used by Government?—and to what extent?

London, Nov. 26.

A CONSTANT READER.

[We believe coals are very rarely employed in locomotive engines—coke is the usual fuel; but we are aware manufactured fuel has occasionally been used. We have, on various occasions, noticed the specifications of patents for fuels for furnaces, and which, in general, are peculiarly suited for steam—boat purposes. We have noticed Corke's, Wylam's, Stirling's, Warlich's, and others, nor numaces, and which, in general, are peculiarly suited for steam-boat purposes. We have noticed Corko's, Wylam's, Stirling's, Warlich's, and others, but we are not in a position to say whose is best; the latter we know is patronised by the Lords of the Admiralty, and some observations will be found in another column, founded on an inspection of official documents. The specifications may be obtained at the Patent-office, where the expense can be ascertained.]

IMPROVEMENTS IN SCIENCE—RAILWAY CONSTRUCTION.

Sir,—It is a fact well worthy the attention of the physiologist, that the human mind closes itself against the admission of any new idea, which may chance to be at variance with the impressions by which it is preoccupied; and although the truth is clear, and palpable as noon-day, and presents itself in ever so simple and convincing a form, yet, with a pertinacity the most tenacious, does the mind of man cling to its favourite perceptions—thus defying all attempts, of either argument or persuasion, to make the slightest change in its sentiments. Whether it be selfishness, or an obtuseness of comprehension, I am unable to determine—but much fear that the former infirmity is most at fault in the matter; because we generally see a succeeding age ready to adopt, and take advantage of, the idea which was scouted as an absurdity by the one contemporary with the invention or discovery. This, I fear, is a malady inherent in the human system; for we have seen it operating in all ages, and at all times. In the pages of sacred history, its baneful effects are unceasingly calling down the vengeance of an offended Creator, to punish the stubborn and contumacious self-will of the dependant creature; and we might go on tracing its effects in every age, until we arrive at the present—when we will find that the 19th century, A.M. when Harvey first discovered the circulation of the blood, it has become IMPROVEMENTS IN SCIENCE-RAILWAY CONSTRUCTION.

19th century, A.D., is quite as prone to be influenced by the failing, as was the first century, A.M.

When Harvey first discovered the circulation of the blood, it has become a matter of history how difficult he found it to gain even common attention from the medical men of the day, who sneered at, and scouted as the vain imaginings of a disordered brain, that splendid discovery of a master mind, which was so beautifully and precisely in accordance with the laws of Nature; and it was scarcely in the life-time of the discoverer that any credence was given, to what, should any one now presume to doubt the truth of, he would be voted insane by general consent—so truly have succeeding generations done justice to the sublime discovery, which the jealousies of contemporaries would have crushed as an absurdity. The same fate awaited Jenner, when he discovered the virtues of vaccination, which has proved to be the greatest boon ever conferred on the human race, by has proved to be the greatest boon ever conferred on the human race, by one of our fellow mortals,—and which, had it occurred before the introduction of Christianity, would certainly have led to the deification of the discoverer; and yet it is well known how difficult he found it to gain the duction of Christianity, would certainly have led to the deification of the discoverer; and yet it is well known how difficult he found it to gain the attention of the profession—waiting, in fact, more than seven years of his existence, before he was able to have it introduced. Next, we come nearer to our own times: Watt took the whole time allowed for his patent—14 years—and did not get remunerated for his splendid discoveries connected with the steam-engine; and it is a fact well known, that the first person who proposed transmitting gas by pipes through the streets, for the purpose of illumination, found it impossible to convince, or even to gain the attention of the public—although, at a very great expense, he lighted one of the streets at the West-end for a considerable time; still in the face of this "damning" proof, did the scientific men of the day declare it an impossibility, and even the "solons" of the Society of Arts refused to give credence to their own senses, and, in spite of undeniable ocular demonstration, did the members of this society refuse to entertain the idea, so repugnant to their self-love—the fact being, that not one of them could forgive the inventor for being beforehand with them in the discovery,—nor had they the straight-forward manlinest to assist him in testing the feasibility of his ideas, but with heartless indifference allowed him to struggle on alone, unsupported and unsympathised with, until his crushed and broken spirit sunk beneath the cold spathy of an unfeeling world, when, goaded to desperation, he put an untimely end to his existence. How different from this would we have expected such a society to act—they hold out to the world that they are ready to encourage and assist in the development of inventions, and improvements, which may conduce to the advancement of either the comfort or convenience of mankind—but with all their professions, I fear that the infirmity I have alluded to has too great an ascendancy in their councils to allow them to accord their assistance a

ance and influence with that impartiality which ought always to attend the deliberations of such a body.

I daresay, Mr. Editor, you are wondering what all this moralising will tend to; but I will relieve you by shortly explaining, that I was led into this train of thought, on reading the letter of Mr. C. H. Greenhow, to the editor of the Times, which appeared in that paper on Thursday last; the correctness of what he stated there, in accounting for the accident at Fampoux, was so self-evident and convincing, that I was quite startled to think, that it had not suggested itself to the scientific men, who had evidently been consulted by the authorities at Lille; but when I came to consider what slight attention Mr. Greenhow had obtained to the same exposition of the inadequacy of the present system of railway construction. sider what slight attention Mr. Greenhow had obtained to the same exposition of the inadequacy of the present system of railway construction, which he has been laying before the British public for several months, I found I must look deeper for the cause of the apathy displayed,—and the reflections contained in this letter are the result of my search: I was more confirmed in my opinion, on looking through the Mining Journal, and seeing the reception Mr. Greenhow met with at the Society of Arts, and recalling to mind the different letters which have appeared on this subject Southampton, Nov. 24.

METROPOLITAN IRON AND STEEL COMPANY-DR. MURRAY. METROPOLITAN IRON AND STEEL COMPANY—Dr. MURRAY. Sr.,—The following expressions, in the advertisement of the Metropolitan Iron and Steel Company, excite my risibility—though rather of a tacitum temperament—"a company has been formed for the manufacture of iron and steel (from cast, scrap, and all descriptions of old refuse iron) which shall be of a superior quality to any other hitherto produced in the mining districts." The ne plus ultra of malleable iron!! The standard of strength and toughness!!—equally applicable for the balance springs of watches, or the ponderous shafts of steam-ships. All this to be done in London—the seat of "the collective wisdom." This is a bold assertion, easier made than proved. When emanating from parties apparently desirous of promoting the benefit of others, its basis ought to be that of truth. It is well known to ironmakers in ceneral that an heteroassertion, easier made than proved. When emanating from parties apparently desirous of promoting the benefit of others, its basis ought to be that of truth. It is well known to ironmakers in general that an heterogeneous assemblage of old frying-pans, hoops, coal scoops, and rat-traps, do not make good iron, nor to a profit, if a cent. per cent. waste is to take place, independent of the general commixture of pure and impure, overheated and burned scraps, of different qualities of iron, that is to form the rude jumble of this Cockney project—to say nothing of the extra expense of coal and other incidents, which must be brought from a distance. I think no man who places a proper value on his l. s. d., will ever give his money away to such a visionary scheme. If the ironmakers in the mining districts cannot make a superior malleable iron, without the dictum and example of the Motropolitan preceptor, it matters not how soon they are sent to the use of the puddle and rabble. The account in the Mining Journal of last week, given by your Newcastle correspondent, of the superiority of hot-blast iron over cold-blast iron, will not have that powerful effect he anticipates. From the several discussions which you have published in the Mining Journal, for the two or three years past, on the strength of hot and cold-blast iron; the several experiments that were made thereon were variable—some in favour of hot-blast iron, and some on cold-blast iron—depending, in a great measure, upon the material used: some places saving from 6 to 8 tons of coal; in others, none. This observation must be taken into account, before such conclusions can be sufficiently supported.

I did not like the illiberal and ungentlemanly attack of "W. Gillo surgeon, Haymarket," on the character and judgment of the worthy an

would lie by its weight along the ground among the stems a long time: therefore sea sand, or other carbonate of lime, being treated with sulphuric acid, in place between the rows, might prove a rescue to the crop.—John Phillips: Pool, Illogan, Corneall, Nov. 13.

FUEL FOR RAILWAYS.

Sir.—Would you oblige me by answering the following questions:—Are coals used for the locomotives on railbeays in England, or "a composition?"—and in what proportions? Is this composition patented?—and whose patent is best? Is it applicable to the general purposes of steam navigation, &c.? Can a copy of the patent be obtained?—and at what ex-

IMPROVEMENTS IN SHUBUILDING—THE WAVE LINE.

Sir,—It was not my intention to have noticed the letter of "R. S. N.," which appeared in the *Mechanics' Magazine*, of Saturday, the 14th inst, because the arguments he uses do not at all bear on the question—the point in dispute being, how much of the displaced water will impinge on the line drawn from the stem to the broadest part of a vessel; not as to what quantity will be displaced by the advance of the vessel a certain distance. My figure went to show that, in progressing a distance equal to C, E, the quantity of the displaced fluid, which would impinge on the line C, B, would just be one-half of the quantity impinging on the line C, G; and, consequently, the cohesion and friction would be greater on the longer line, in a ratio, as expressed by the two triangles. However, I have been induced to change my intention, on account of a friend suggesting that, although the arguments used by "R. S. N." do not bear on the point in question, yet they are sufficiently plausible to take the attention of the general reader, unless shown to be incorrect by an exposition of their discrepancies; I shall, therefore, though reluctantly, be obliged to request you to allow space in the arguments used by "R. S. N." do not bear on the point in question, yet they are sufficiently plausible to take the attention of the general reader, unless shown to be incorrect by an exposition of their discrepancies; I shall, therefore, though reluctantly, be obliged to request you to allow space in your valuable columns for the very few remarks I think it necessary to make, in order to dissipate the illusion, with which "R. S. N." is exhilarating himself. Referring to his letter, I must again repeat what I stated in my last reply to a letter of his, that I do not doubt his assertion, that he "cannot make out" what is meant by the demonstration he complains of—because he has taken too much pains to prove the absolute obtuseness of his ideas, to leave any uncertainty about the clearness of his comprehension. What he says about "adhesion being caused entirely by friction," is really too ridiculous—it would be well if "R. S. N." could digest his confused ideas, before he again commits them to paper. The figure he has favoured us with does not at all bear on the question in dispute—the point at issue being as to the quantity of water in contact (at one and the same time) with the surface before the broadest part of the vessel, not having the remotest connection with the quantity of water to be displaced. The figure, which I will presume your readers have before them, merely goes to support a proposition laid down by me in one of my letters to the Mining Journal, to the following effect:—"That, in traversing a distance equal to her length, a vessel displaces a quantity of water equal to her weight;" therefore, parallelograms, such as those drawn by "R. S. N." will be a correct measure of the quantity of water displaced by the vessel advancing a distance equal to the base—and that quantity of water will have the same ratio to the weight of the vessel, that the base of the parallelogram has to the length of the vessel; but the problem, to the solution of which we wish to arrive, is not at all affected by the abov

vessel and the water before it, in the easiest and most expeditious manner; and as entirely different laws are called into operation before the broadest part, from those that are operating abaft that part, it becomes necessary to consider them separately—and, after having done so, then to sum up the whole evidence, and decide accordingly. After what I have now stated, it will be superfluous to point out the error "R. S. N." has fallen inte, when he says the hypothenuse is less than the other two sides of the triangle—this traism no one will go about to dispute; but it will beat the philosophy of either him, or any one else, to prove that the same quantity of water is in contact with the line C, B, in the parallelogram C, E, H, B, as is in contact with the line C, B, in the parallelogram C, E, B, G—the fact still becoming more apparent, that, as the angle at E is diminished, the line C, G, must be lengthened in a precisely similar ratio, and the proportion of the water (contained in the parallelogram), which is in contact with the bow, increased in an exact ratio with this increase of length—thus this very figure, brought forward by "R.S.N." (inserted in last week's Mining Journal), confirms all that I have previously asserted, and would have answered nearly as well as my previous demonstration by triangles—my reason for adopting which was, that on account of the accumulation of the water along the line C, B, before it is dispersed beyond the side of the vessel, the pressure, or resistance, increases towards the point B, and the triangular figure expresses the value of that increase. I am curious to know the dimensions of the Columbus, and trust that "R. S. N." will keep his word, and let us have the information promised. With best thanks for the space allowed, for what, I fear, you will consider my too long letter, I remain, &c.—Nauticus: Lendon, November 24.

X IMPROVEMENTS IN SHIPBUILDING. Sir.—Your correspondent, "Nauticus," has been unfortunate in the selection of the performance of the sharp-bowed steamer, the *Encounter*, on beating the full-bowed brig, the *Mariner*, three days, in the voyage from Pembroke to Plynouth; it may afford some evidence respecting the flat and rising floors, but it refutes the deductions arrived at in favour of full Pembroke to Plymouth; it may alroid some evidence respecting the flat and rising floors, but it refutes the deductions arrived at in favour of full bows, from the twice-repeated diagrams. In your correspondent's letter, the resistances of a ship in her course are divided into three classes:—I, removal of water; 2, friction; 3, adhesion. The two last-mentioned are of very minor importance in comparison with the first. Now, instead of the mass of water removed being as the weight of the vessel (the original assertion, I apprehend), it is measured by the area of the midship section, and by the space of motion; and, as the same mass must be moved by a given area of midship section passing over equal spaces, the resistances must be lessened, as the violence of contact is reduced by sharper bow angles. The assumption, that a larger mass of water is removed proportional to the increased length of the bow with a sharper angle, is an error of fact, not of theory. In the letter of the 18th November, a midship area of 1 ft. square is given, equal to 1 at one mile per hour: increase the speed to five miles per hour, and the resistance will be increased to 25, or 5 × 5 (termed mathematically the square of the velocities). Now, this statement, as it stands, is correct, since the absolute pressure on the square foot of water removed in equal spaces, at five times the velocity, increases in that ratio. The subsequent reasoning is erroneous—viz.: "because, at five times the velocity, not only is the pressure on the square foot referred to five times as great; but also, in going over five times the space, five times the quantity of the water has to be thrown aside."

Now, the facts are for equal spaces, passed over by a square foot of midship are the water than the resistance during one-fifth of the time at five times the plant of the water has to be thrown aside."

as great; but aiso, in going over the times are provided."

Now, the facts are for equal spaces, passed over by a square foot of midship area, the water resistance during one-fifth of the time, at five times the velocity, is 25 times as great; but as five times the space is passed over in equal times, the total effect of the resistances is 25 × 5, or 125; and hence, to overcome it, a power, equal to the cubes of the velocities, is requisite. The theory of shipbuilding is not of that simple character as to be founded on a few diagrams—these are of value, if confined to distinct questions; but injurious, if used to confound and bother mixed questions. S. S. Penym, November 22.

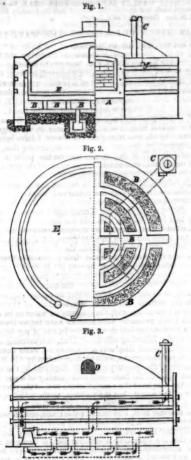
P.S.—Sharp bows are commonly an improvement, if they are an addition to a vessel; but often an injury, in case they are a substraction from

tion to a vessel; but often an injury, in case they are a substraction from the requisite displacement. In comparison of rival claims, the same displacement should be referred to, both of sharp and full bows. As an instance of addition, the lengthening of one of the Isle of Wight pilot boats 6 feet by the bow, may be mentioned. This vessel was increased from about 40 to 46 feet in length, the mast was shifted about 18 inches forward, and the only increase of canvas was one more cloth in the foresail. The result way in bad weather, especially on a wind, an increase of more than one-third in the speed. She would beat to windward fast in weather, in which she was obliged to lay to previously: under such circumstances, more spray was thrown in abaft the mast, but the vessel was much drier forward—a bad boat was thus converted into a good boat.—S. S.

EFFECTS OF THE STORM ON THE DUBLIN AND KINGSTOWN AND DROCHEDA LINES.—So great (says the Irish journals) was the flood, and such was its violence at high-water on Friday, at about noon, that the train which left Dublin for Kingstown, at 12 o'clock, had to put back, not being able to proceed beyond Booterstown. The tide rushed in over the boundary wall of the line at a point between Merrion and Booterstown. Even if the carriages could proceed, there was imminent danger of the up and down trains crossing each other. In order to prevent the fearful consequences of such an accident, the trains did not ply either way, until the tide ebbed sufficiently, which it did in about an hour and a-half. Telegraphic signals were in active operation along the entire line during the morning. The utmost precaution was caused by the officers of the company to prevent accident—The Drogheda line was exposed in many parts to the violence of the wind and sea, but it escaped unburt, and the usual trains passed back and forward during the day, without the least interruption.

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In the Mining Journal of Saturday last, we briefly noticed a new method of manufacturing coke, and now proceed to a more full explanation with an engraving of the oven employed. Fig. 1 is an elevation of the front, with half left out, to show the interior—A being the door, and B Bthe



circular and cross air passages,—and corresponding with the same letters in fig. 2: these passages communicate one with the other, and with two vertical pipes, C, closed on the top with a valve, which is opened when the cooling process is going on, but have no connection with the interior of the oven: D (fig. 3) is the chimney flue. The mode of operation is as follows:-A quantity of coal is thrown in, sufficient to cover the floor, E. of the oven, to the depth of 2 ft., and spread so as to incline a little.downwards from the sides, towards the centre. As the oven is charged, a temporary wall is built at A, up to the door: a shovel full of burning coals is on thrown in,-and when the fire is well burned up, the door is closed, and well luted up: in this door are a number of oblong apertures, which can be opened or shut by sliding covers, so as to regulate the quantity of ssary for combustic air admitted: the passages which admit the air necessary for combustion are now left open, while those for cooling, B B, are closed. As the car are now left open, while those for cooling, B B, are closed. As the carbonization advances, those passages or flues are gradually closed; and at the conclusion of the burning, of which the cessation of all flame may be taken as a good practical criterion, they are wholly shut; the valves on the top of the vertical pipes, C, are then opened at top—as are also the apertures leading to the air chambers B B—and the coke is left to cool before removal; the drawing the coke while hot, and quenching it with water, is thus avoided—and that produced by this new mode of manufacture is of a very superior quality, while the amount produced from a given quantity of coal is much larger than usual. The time usually employed in coking 8 tons of coals, and cooling, varies from 80 to 90 hours, according to the quality of the coal employed, and the temperature of the atmosphere. When a coke is required more than usually free from sulphur, and other metallic admixtures, the patentee passes a current of electricity through the ignited coal in the following manner:—As soon as the flame on the surface begins to die away, the apertures in the door are closed by the slides before mentioned—as also all those for the admission of air to the coke: an irron rod is then introduced into the coke near the bottom of the front of the oven D, and another on the surface of the coke at the back of the oven—the former rod is then connected with the positive pole of a powerful galvanic battery, and the then connected with the positive pole of a powerful galvanic battery, and the latter with the negative pole, by means of stout copper wires, leaving the body of coke in the oven to complete the circuit; 6 tons of coke should remain subof coke in the oven to complete the circuit; 6 tons of coke should remain subject to the electric apparatus for about two hours. On analysing specimens of coke from the same coal, one of which had been subject to electricity, and the other not, the former is found more free from sulphur and metallic mixture, than the other, by about 12 to 1. The patentee's claims are for regulating the admission of air to the coke—cooling the coke within the ovens, without exposure to the air—the application of electricity, for the purpose of freeing the coke from sulphur and other admixture—and the construction of coke ovens, as here described.

LONDON THAMES AQUEDUCT .- The supply of water to the metropolis taken up as it is from situations in the River Thames by the water com panies at present in existence, where it is polluted by every description of filth from the common sewers, has long been subject of loud complaint; and, notwithstanding its impurities have been proved to exist, before comand, notwinstanding its impurities have been proved to earst before com-mittees of the House of Commons, and as such most detrimental to the public health, nothing has yet been done to remedy the evil. We are glad to observe, that application is to be made to Parliament in the next ses-sion, for an Act to incorporate a company for better supplying the metro-relia with mater. It is represed to sake the water from the Thames at a pois with water. It is proposed to take the water from the Thames at a place called Bray-lock, in the parish of Taplow, Buckinghamshire—and convey it from thence by aqueducts and culverts to a reservoir near the Swiss Tavern, St. John's Wood, in the parish of Hampstead, from whence it will be supplied by pipes to the inhabitants in the usual way. At this distance up the river, the waters of the Thames may be considered to be in their water very the waters of the Thames may be considered to be in tance up the river, the waters of the Thames may be considered to be in their utmost purity—equal, perhaps, for domestic use, to any water in the kingdom; and, should the Act be obtained, it will be a great boon to the inhabitants to introduce a wholesome fluid into their dwellings—form, it is to be hoped, a competitive check on the present congregated monopoly— and would, doubtless, turn out a profitable undertaking to the shareholders.

NEW OMNIBUS MODEL.—A model of the new omnibus, included to be used by the Economic Conveyance Company in Liverpool, has been shown to us. The body of the carriage is divided into three compartments, having separate entrances. The centre carriage is lower than the end ones, and is intended for passengers paying twopence a mile. The compartments in front and behind are raised somewhat higher, for the purpose of placing the wheels under the jody, so that the ladies dresses will not be soiled by entaring or leaving the vehicle. But the most ingenious part of the invention lies in the wheels. There are eight, four under the fore carriage and four under the hinder one; the whole of which are connected by bars from the axies, which give a uniform motion to the whole, no wheel being capable of moving without giving a corresponding motion to the other seven. Two horses will generally be used, but when the line of route is hilly, three horses will be attached abreast, as in Paris. Each station in town will be a mile; and should the passenger wish to ride further, other omnibuses will run in conjunction; so that the traveller can proceed in another conveyance, either in the same line, or at a tangent, as his business requires.—Liverpool Churier.

As the subject of central heat has lately formed the subject of discussion among several of our correspondents, we have thought that the opinions of Humboldy—a man who has paid, during an active life of upwards of among several of our correspondents, we have thought that the opinious of Humondra—a man who has paid, during an active life of upwards of half a century, such particular attention to natural phenomena, both celestial and terrestrial—would be read with interest; and probably correct the views of some who may have formed too hasty considers on the subject: we shall now, therefore, give from his excellent work Cosme, which we noticed in the Mining Journal of the 24th ult., a few detached extracts, connecting them without departing from the language of the author. He considers the compression of the earth as a consequence of the centrifugal force acting on a rotating mass in a semifluid state, and as evidencing an earlier condition of fluidity in this planet; in the course of solidification an enormous quantity of latent heat would have been disengaged; and supposing, with Fourier, the process of consolidation to have commenced by radiation into space from the cooling surface, the particles nearer to the earth's centre would have been established, when the heat would increase uninterruptedly with increasing depth. The high temperature of water which rises in very deep Artesian wells; direct observations of the temperature of rocks in mines; and above all, the volcanic activity of the earth, ejecting molten masses from opened clefts and fissures—bear unquestionable evidence to this increase for very considerable depths in the upper terrestrial strata. That which is most difficult for us to conceive, is the boundary line between the fluid interior mass and the solidified rocks forming the outer crust; or the gradual change from the solid state to that of semi-fluidity. It seems highly probable that the action of the sun and moon, which produces the ebb and flow of the ocean, is also felt in these subterranean depths. Tolerably accordant experience has shown, that in Artesian wells the average increase of temperature in the strata is 1° of Fahrenheit for every 544 feet of depth; or, if we suppose this increase to con Tolerably accordant experience has shown, that in Artesian wells the average increase of temperature in the strata is 1° of Fahrenheit for every 54½ feet of depth; or, if we suppose this increase to continue in an arithmetical ratio, a stratum of granite would be in a state of fusion at a depth of about 21 geographical miles—or between four and five times the elevation of the highest summit of the Himalaya mountains. He considers there are three causes of the propagation of heat—viz: 1, periodical, causing the temperature to vary according to the position of the sun and the period of the year, when the warmth penetrates downwards or escapes upwards; 2, part of the heat which has entered the earth's crust in the equatorial regions, travels along the interior to the vicinity of the poles—an operation extremely slow; and 3, the loss of central heat radiating to the circumference, and there "scaping; but this cooling of the globe, and addition to the heat of the strata, is so slow as to be hardly appreciable by any instruments. There are at different portions of the earth's surface different depths, where the temperature is invariable: in our temperate latitudes the stratum of this invariable temperature is from 59 to 64 feet; while in tropical climates this point is only 1 foot below the surface. The unchanged length of day and night is shown by him to indicate the almost stationary temperature of the earth; for as, from the unaltered time of vibration of a length of day and night is shown by him to indicate the almost stationary temperature of the earth; for as, from the unaltered time of vibration of a pendulum, we are enabled to conclude that the equality of its temperature has been maintained, so the unchanged velocity of the earth's rotation furnishes a proof of the stability of its mean temperature. The velocity of the earth's rotation depends on her volume; and since, from the gradual cooling of the mass from the effects of radiation, the axis of rotation would become about a such described in the state of the property as wear to be such that the state of become shorter, any such decrease of temperature would be accome by increased velocity of rotation and diminished length of day. comparing the secular inequalities in the moon's motion with eclipses ob-served by the ancients, shows that, since the time of Hipparchus, or during an interval of 2000 years, the length of the day has not been diminished one-hundredth part of a second: it is known, therefore, that the mean temserved by the ancients, shows that, since the time of Hipparenus, or during an interval of 2000 years, the length of the day has not been diminished one-hundredth part of a second: it is known, therefore, that the mean temperature of the earth has not altered during that period so much as one three-hundredth part of a degree of Fahrenheit. In his consideration of the causes of action of volcances, he shows that the hottest permanent springs yet known, are those discovered by him, and at a distance from any volcano—the "Aquas Calientes de las Trincheras," near Porto Cabello, in South America, 194.55 Fahrenheit, issuing from granite—" Aquas de Coman Gillas," near Guanaxuato, 205.56 Fahr.; and the sources of these springs he estimates at 7800 English feet: these springs, not far from the boiling point, are not so uniform in temperature as those of Europe, from 122° to 165° Fahr., which have undergone no perceptible change for the last 60 years. In 1759, when Jurillo was raised 1759 feet above the surrounding plain, two small springs, the Rio de Cultimba and the Rio de San Pedro, disappeared, and some time afterwards broke out again at a temperature of 186.4° Fahr. M. Arago also, in 1821, noticed that the deepest Artesian wells are the warmest, and threw a new and important light on the doctrine of thermal springs, and the law of the increase of terrestrial heat at increasing depths.

MANGANESE.—Beckmann, in his History of Inventions and Discoveries, expresses his surprise by what accident the peroxide of manganese could have been found out by artists to be useful in staining glass—it being a mineral, the outward appearance of which has nothing to recommend it. Certain it is, that manganese is of great use in freeing glass from its dirty colour, and in proper proportions stains it a beautiful light purple, something near the colour of amethyst. The rationale of its former property may be thus described: the silica used in the manufacture of glass often contains iron in the form of a protoxide, staining if green; wh

ancients employed manganese, if not for glazing, at least for painting, their pottery or earthenware, as soon as they became acquainted with its use at the glass-houses, and its susceptibility of being converted into a coloured vitreous mass. The use of manganese in rendering the glass colourless, has been retained through every age to the present time, and it is alluded to by all authors who have written on glass-making; its distinguishing characters are a resemblance to a burnt coal or cinder, and the fracture appears striped and coloured; it is found in many parts of Europe, and Germany for some centuries has supplied its own manganese to the glass-houses. Some salts of the lower oxides have lately been used as producing a brown colour in calico printing.

brown colour in calico printing.

VESSEL WRECKED WITH SHAVER-LEAD ORS. During the storm of VESSEL WRECKED WITH SHAVER-LEAD ORE.—During the second of Saturday last, the 21st inst., about three o'clock in the morning, the Devon (Capt. Beer), with a rich cargo of silver-lead ores, the produce of East Tamar and the Holmbush previous sales, consigned to Mullins, Brothers, and Co., London, smelters, was driven over to the French coast, and became a wreck: crew saved, and the cargo insured at Lloyd's.

Ainslie's Brick and Tile Machine, and Drying and Burning Kiln.—As long since as the 26th of Nov., 1842, we gave a description of Ainslie's tile-making apparatus, with a diagram, which we then noticed as a beautiful piece of mechanism, of the utmost regularity of motion, and Ainslie's tile-making apparatus, with a diagram, which we then noticed as a beautiful piece of mechanism, of the utmost regularity of motion, and producing tiles or bricks, of every required form, whether for drainage, roofing, or other purposes. Since that period, Mr. Ainslie has effected numerous improvements, by which the perfect working of the machine is much facilitated, particularly in an entirely novel method of self-feeding, with the tempered clay, instead of the common method, by a hopper placed over the rollers, and which was the plan adopted with some modifications in the first form of Mr. Ainslie's machine; the feeding is now effected by a cylinder, on the axis of the fly-wheel—behind which is a platform, forming an inclined plane, down which the clay falls towards the roller; by an arrangement inside this cylinder, a plate of iron is projected through a longitudinal opening in the circumference, just as it reaches the clay, and forces a portion of it through the moulds—thus keeping up a continuous stream of tiles or bricks, as the case may be, and the machine works much more easily. Another important improvement made by the patentee is, a new construction of kiln, for drying and burning bricks and tiles; it is composed of various compartments, by which the heat from the first passes into the second, from thence into a third, and so on—thus economising the heat; and, when the tiles in the first are burnt, the second are half-burnt, to which the greatest heat is then applied, and the chambers are taken in succession—the thorough drying of the bricks being completed burning. This new apparatus has been proved on a large scale; and, unlike the common method, by which, frequently, one-quarter of the article is spoiled, in this, every brick and tile is found to be as perfect in shape as it entered, and thoroughly burned. We understand that the company do not intend charging royalty in future, but to sell the machines at a reduced price, to place them within the reach of small farmers and others. SALT MONOPOLY IN FRANCE, SPAIN, AND INDIA.

The menopoly over the manufacture of salt, maintained by the Government in France, which increases the price to the consumer 200 per cent, has for several years caused a general outcry among all classes of the community, who consider it one of the most prejudicial that an industrious people can be opsed with. Numerous petitions, session after sersion, have been presented to the Chamber, by free-trade Peers and Deputies, emannting from the leading interests of the kingdom; notwithstanding which, and the many promises made by Government, that a modification of these duties should take place, no reduction is yet made; and it would appear that they cannot bear te give up the revenue arising from this impost, although most injurious to every branch of industry. The greatest sufferers are, perhaps, the curers of fish—the Newfoundland fishery has, of late years, been a source of profitable enterprise to French industry, but is addly cramped by this monopoly; and the Chamber of Commerce has addressed a memorial to the Ministers of Commerce and Finance, with the object of obtaining permission to use foreign selt during the season of 1847; the object being to employ salt from the ports of Portugal, which can be obtained for 10s. 5d. per ton; while, in France, it costs 40s. At present no notice has been taken of this memorial; but the Minister of Marine has announced, as usual, that he should be ready to receive contracts for 200,000 tons of salt, to be delivered at the port of Brest. Salt is annually getting more and more scarce in France, and the greatest exertions are required to keep up a supply equal to the demand, even at the present exorbitant prices. Some rumours are afloat, of the probability that the tax will be greatly reduced in the next session, and the import duty on British and Belgic asit repealed—the Minister of Commerce wishing to show some signs of attention to petitions so respectably and numerously signed.

SPAIN also has severely suffered, and still suffers, from the royal monopoly to the Chamber, by free-trade Peers and Deputies, emanating from the leading

SPAIN also has severely suffered, and still suffers, from the royal monopoly of the manufacture of salt: through it a considerable portion of the flah of the Atlantic and Mediterranean is entirely lost, which, in a Catholic country such as Spain, would add amazingly to the national food; and, surrounded as she is with prolife fishing grounds, she is actually obliged to resort to England and Newfoundland for salted codfish—an indispensable article for the fast days of the people. The following extract will convey a clear idea of the effect of this impolitic tax:—"The salt works (says Townsend, who wrote about 80 years ago) yield a considerable revenue. These were formerly considered as private property; but in the year 1848 they were taken by Alonzo If, and in 1654 Phillip II. seized them as part of his demesne. The chief of them are in Andalusia, Valencia, Catalonia, and Majorca. The salt works of Matra, in the kingdom of Valencia, would easily furnish 1,500,000 of fanegas, of about 100 lbs. weight, which, could they find a market, would, at 22 reals the fanega, make 330,000 sterling per annum; but, by raising the price, they have lessened the demand, so that the whole amount of the kingdom is only about two-thirds of what one work alone might furnish." Atlantic and Mediterranean is entirely lost, which, in a Catholic country such

The effects of the tax on this necessary of life and health in INDIA we have, on numerous occasions, adverted to-it is totally indefensible even as revenue. because we have before shown that it brings to the company no revenue at because we have before shown that it brings to the company no revenue at all—all they gain is a positive loss; while the population of 40,000,000 of whom are deprived of a sufficient quantity of this health-preserving and savoury condiment. The salt of Warwickshire contains only 12 parts of impurities to 988 parts of pure muriate of soda; the common salt of Cheshire, only 164 parts; and rock salt, 164 parts of impurities, out of 1000—while that manufactured in India, from the muddy shores, is black, filthy, and disgusting, and would not be recognised as salt by an Englishman, on its being first placed before him. The contiguity to the sea of our salt mines, enables our merchanist to compete with any selt-producing country in supplying this article to any spot on the habitable globe. Our present exports are 11,000,000 bushels annually, employing shipping to the amount of 290,000 tons of dead weight; and, if the duty on salt in India were only reduced to a more moderate sum, this amount would most probably be doubled. The United States of America manufacture a large quantity of excellent salt annually; and formerly, there was an impost on the admission of British salt of 400 per cent. As the population, however, increased, the production of salt did not increase with it; and too wise to debar the nation of what they could not supply themselves, the tax has been so reduced, that 4,000,000 bushels are annually imported into America from this country. We trust the time is not far distant when the advance of free-trade principles will have found their way to the puriess of Leadenhall-street, and when so extensive a population of one of the most fertile and prolific countries on the globe will be emancipated from a tax—one of the relies of barbarous misrule—and which prevents the development of the bounters with which Nature has surrounded the imbottants of India, and the employment of thousands upon thousands of tons of British shipping. We understand that no fewer than nine memorials have been forwarded to the India all-all they gain is a positive loss; while the population of 40,000,000 of

PATENT KAMPTULICON COMPANY, 18, CORNHILL. This company having completed their new factory, are prepared to supply railway managers and contractors with an elastic material (perfectly non-absurbent) to place between the rails and sleepers, and between the frames and boths of carriages, to prevent jarring, and, consequently, wear and tear. The clastic planking is strongly recommended to be used for the backs and sides of carriages, to prevent splinters when accidents occur.

By order of the board, P. G. GREVILLE, Secretary.

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J. MURDOCH (successor and late assistant to Mr. Hebert)

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PATENT IMPROVEMENTS IN CHRONOMETERS.

ATENT IMPROVE MENTS IN CHRONOMETER.
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watch and clock maker, BY APPOINTMENT, to the Queen and his Royal Highne
Prince Albert, begs to acquaint the public, that the mannfacture of his chronometer
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1840, 1842. Silver lever watches, jewelled in four holes, 6 gs. cach; in gold cases, fro
8 to £10 extra. Gold horizontal watches, with gold dials, from 8 gs. to 12 gq. cach.
DENT'S PATENT DIPLIEDOSCOPE, or meridian instrument, is now ready for deliver
Pamphiets containing adescription and directions for its use 1s, each, but to customeragratic

NATIONAL LOAN FUND LIFE ASSURANCE SOCIETY.

ATIONAL LOAN FUND-LIFE ASSURANCE SOCIETY, 26, CORNHILL, LONDON.

Capital £500,000.—Empowared by Act of Parliament.

This institution embraces important and substantial advantages with respect to Life Assurances and Deferred Annutities. The assured has, on all occasions, the power to borrow, without expense or forfeiture of the policy, two-thirds of the premiums paid (see table); also the option of selecting benefits, and the conversion of his interests to meet other conveniences or necessity.

Assurances for terms of years are granted on the lowest possible rates.

DIVISION OF PROFITS.

The remarkable success and increasing prosperity of the society has enabled the directors, at the last annual investigation, to declare a fourth bonus, varying from 36 to 85 per cent, on the premiums paid on each polley effected on the prefit scale.

EXAMPLES.

| Sum. Prem. | | | | Year. | Bonus | ad | ded. | Box | ush. | in | Permane of Pr | nt re | educ | tion | Assure | ed n | 4 |
|------------|-------|------|---|---|-------------------|-----|--------------|----------------|------------------------|--------------|------------------|-------|------|------|-----------------------------------|---------|-------|
| 60 | £1000 | €0 3 | 4 | \[\begin{align*} 1837 \\ 1838 \\ 1839 \\ 1840 \\ 1841 \end{align*} | 192 165 116 | 117 | 0 10 6 | 87 74 54 | 0 1 1 0 10 | 4 9 10 | 13 14 HH | 10 | 1 10 | V | £445 395 -346 296 247 | 11 2 13 | 1 3 4 |

The division of profits is annual, and the next will be made in December of the present.

F. FERGUSON CAMROUX, Secretary

GREAT BRITAIN MUTUAL LIFE ASSURANCE SOCIETY, 14, WATERLOO-PLACE, LONDON.

THE CHISHOLM, Chairman

DIRECTORS.

WM. MORLEY, Esq., Deputy-Chairman

HALF CREDIT RATES OF PREMIUM.

The attention of Assurans is particularly directed to the Half Credit Rates of Premium by which means assurances may be effected, and loans for short periods secured with the least possible present outlay, and at a less premium than for short terms only, and with the option of paying up the arrears and interest—thus becoming entitled to participate in the whole of the profit of the institution.

Extract from the Half Gredit Rates of Framhum.

Age 20. Age 30. Age 40. Age 50. 20 17 0£1 1 1£1 8 2£2 1 0£3 Thus £1000 may be assured at the age of 30 by the annual payment of £10 10s. 10d. or the first five year.

The whole of the profits divided Annuality among the members, after payment of five

An ample guaranteed capital, in addition to the fund continually accumulating from premiums, fully sufficient to affect complete security to the policy-holders. Members assured to the extent of £1000 entitled (after payment of five animal premiums) to attend and vote at all general meetings, which will have the superintendence and control of the funds and affairs of the society.

Full particulars are detailed in the prospectus, which, with every requisite information, may be obtained by application to

STURIAN MINING COMPANY.—At a Special General Meeting of the proprietors, convened by advertisement, and held at the offices of Meeting of the proprietors, convened by advertisement, and held at the offices of he company, No. 9, Austimfriars, on Monday, the 23d November, 1846, GIDEON COLQUHOUN, Eaq., in the chair,

The advertisement convening the meeting (as inserted in the Mining Journal of the 14th 18t.), having been read—the directors' report, with the correspondence from the super-stendard, and the balance sheet, having also been read—the was Resolved unanimously.—That the report and accounts, now read, he received, adopted, ad entered on the minutes.

and entered of the minutes.

Resolved unanimously.— That, from the cheering prospects which the company presents it. Samappropriated shares be reserved for the future decision of the shareholders; and that the directors be empowered to rules such further capital as may be required, between the present time and the period of holding the annual meeting in June next, by calls, not exceeding 42 per share—such calls being divided into two equal instalments.

Resolved unanimously.—That all shares upon which the arrears of calls now due, be not paid on or before the 30th inst., shall be declared forfeited.

Resolved unanimously.—That the directors be empowered to renew the negotiation with dr. Busenthall, should the opportunity present itself, on the terms previously agreed upon it to enter into a similar arrangement with any other competent party, with the view of fleeting the object contemplated.

o object contemplated,
unanimously,—That the thanks of the shareholders are due, and are hereby
e chairman and the board of directors, for the zeal and attention manifested
conducting the affairs of the company; and that this meeting do express theli
ace in the success of the undertaking, and the prospects of benefit held out by
attafactory report submitted.

K. MACKENZIE, Searchay. tisfactory report sub dars, Nov. 23, 1846.

A STURIAN MINING COMPANY.—Notice is hereby given, that, in terms of a resolution of the special general meeting of the shareholders in his company, held at their offices this day, the remainder of the SHARES on which CALLE PAST DUE shall not be paid on or before the 30th day of November inst., will be CANCELLED, and new shares issued in lieu of them, for the benefit of the company.

By order of the board,

R. MACKENZIE, Secretary.

A JAHOTTIERE IRON COMPANY.—At a Special Genera Meeting of the proprietors, hold pursuant to advertisement and circular, on Thursday, the 26th inst., at their offices, No. 22, Throgmorton-street, City, EENJAMIN FILL, Eq., in the chair.

The advertisement convening the meeting, as also the previsions under which such was

day, the 26th inst., at their offices, No. 22, 18 read, in the chair.

The advertisement convening the meeting, as also the previsions under which such was called, having been read—it was

Resolved unanimously,—That, in conformity with the 15th Article of the Acte de Société, the capital social of the society be increased by the issue of new shares, so as to consitue the entire capital of the society of the sum of 1,000,000 frs.

Besolved unanimously,—That the gerusts of the company be authorised to take such measures as will duly and legally carry this resolution into effect.

Besolved unanimously,—That the shares to be issued, in conformity with this resolution, shall, at the option of the subscribers, be of the denomination of 1000 frs., 500 frs., or 250 frs. each; and that the holders of the present shares may exchange the present shares, of the denomination of 1000 frs., in shares to 500 frs. or 500 frs. each, upon notice to the persus, and upon delivering up their shares to be cancelled.

Resolved unanimously,—That, at all future meetings of the society, the holders of 20 shares, of 250 frs., or 10 shares of 500 frs. each, and so on, in the proportion of interest as provided by the 15th Article of the Acte de Société, shall have the same right of voting as accorded to the holders of sive shares of 1000 frs.

Resolved unanimously,—That the cordial thanks of the proprietors be given to T. L. Murray, Esq., and Mr. Dupres, for the services rendered the company by them in carrying out its operations, and bringing it into its present productive state; and also expressive of the confidence they entertain in their future services, being calculated to advance the interests of the company, and to promote its general edjects.

BENJAMIN IFILL, Chairman.

It was moved, seconded, and carried unanimously.—

That the thanks of the meeting be given to B. Ifill, Esq., the chairman, for the interest sanifested by him. In advancing the prospects of the company, and for his services in the hair this day.

23, Thregmorton-street, Nov. 26, 1846.

BIRMINGHAM AND OXFORD JUNCTION RAILWAY,
AND BIRMINGHAM, WOLVERHAMPTON, AND DUDLEY RAILWAY.—
Notice is hereby given, that the SEALED CERTIFICATES of these companies will be
ISSUED in EXCHANGE for the RECEIPTS for SCRIP, on and after the 14th Dec. next.
THOMAS HOLROYD, Secretary,
Birmingham and Oxford Junction Railway Company.
JOHN WILLIAM KIRSHAW, Secretary,
Birmingham, Wolverhampton, and Dudley Railway Company.

24. Beneath, MIL Riverham No. 24. 1846.

Birmingham, Wolverhampt 34, Bennett's-hill, Birmingham, Nov. 24, 1846.

BIRMINGHAM, WOLVERHAMPTON, AND DUDLEY BAILWAY.—CONTRACT FOR WORKS.—Notice is hereby given, that the directors of this company will meet at their offices, 34, Bennett's Hill, Birmingham, on Monday, the 14th Dec., 1846, at Twelve o'clock in the day, for the purpose of RECEIVING TENDERS for the construction of the following works:—

69

GREAT BRIDGE CONTRACT—from Vyss-street, Birmingham, to Great Bridge, being a distance of about six miles.

Drawings and specifications of the line may be seen from the 16th Nov. to the 1st Dec. (incl. sive), at No. 162, Constitution-hill, Birmingham; and from the 2d Dec. to the 12th Dec. (incl. sive), at No. 17, Great George-street, Westminster.

The necessary forms of tender may be obtained at those places during the above-named

is. does are to be delivered at the offices of the company on or before the 14th Dec. for than Twelve o'clock in the day, when and where persons tendering are requested

ttendance.
ectors do not pledge themselves to accept the lowest fender.
WILLIAM MATHEWS, Chairman,
JOHN WILLIAM KIRSHAW, Secretary.
nett's-hill, Birmingham, Oct. 28, 1846.

NOTE.—Nov. 16, 1846.—Contractors wishing to tender for the above contract, are re-nested to meet at No. 17, Great George-street, Westminster, on the 33d finst., at Two clock r.w., for the purpose of appointing a surveyor to take out the quantities in the sual way; and also to receive lithograph copies of the plan, sections, and specifications.

CALEDONIAN RAILWAY—SIXTH INSTALMENT £50 SHARES.—Notice is heroby given, that the directors of the Caledonian Rail-Company have made a CALL for a SIXTH INSTALMENT of FIVE POUNDS per e, on the £50 shares, PAYABLE on or before the 18th day of December next, at any the under-mentioned banks:—

share, on the 250 shares, FAIABLE on or center and the control of the under-mentioned banks:—
LONDON—Messrs. Masterman, Peters, Mildred, Masterman, and Co.'s, 35, Nicholaslane, Lombard-street.
LIVERPOOL—Messrs. Moss and Co.'s.
MANCHESTER—Sir Benjamin Heywood, Bart., and Co.'s.
BRISTOL—The National Provincial Bank of England.
NEWCASTLE-ON-TYNE—The Newcastle Commercial Banking Company.
EDINBURSH and GLASGOW—The Commercial Bank of Scotland, and the Edinburgh and Glasgow Bank.
Interest, at the rate of 5 per cent. per annum, is charged on all calls paid after the day fixed.—Transfers of shares received at this office after Tuesday, the 24th inst., cannot be registered till the call is paid.

By order of the board.

J. BUTLER WILLIAMS, Secretary. gistored till the call is paid. By order of the board,
Office, 122, Princes-street, Edinburgh, Nov. 20, 1846.

CALEDONIAN RAILWAY—CLYDESDALE JUNCTION CALEDONIAN RAILWAY—CLYDESDALE JUNCTION
GUARANTEED SHARES.—Notice is hereby given, that the directors of the Caedonian Railway Company have made a CALL for a FIFTH INSTALMENT of FIVE
FOUNDS per share on the Caledonian Railway (Clydesdale-Junction Guaranteed Shares),
FAYABLE on or before the 18th day of Dec. next, at any of the under-mentioned banks:
LONDON—Messrs. Masterman, Peters, Mildred, Masterman, and Co.'s, 35, Nicholaslane, Lomburd-street.
LIVERPOOL—Messrs. Moss and Co.'s.
MANCHESTER—Sir B. Heywood, Bart., and Co.'s.
MANCHESTER—Sir B. Heywood, Bart., and Co.'s.
MEWCASTLE—ON-TYNE—The Newcastle Commercial Banking Company.
BRISTOL—The National Provincial Bank of England.
EDINBURGH and GLASGOW—The Commercial Bank of Scotland, and the Edinburgh
and Glasgow Bank.
Interest, at the rate of 5 per cent. per annum, will be charged on all calls paid after the
late fixed.—Transfers of shares received at this office after, this date, cannot be registered
ill the call is paid.

Office, 122, Princes-street, Edinburgh, Nov. 20, 1845.

ODDONEY ALL DATI WAY— Notice is hereby given, that, in

ORNWALL RAILWAY.— Notice is hereby given, that, in pursuance of the provisions of the Act of Incorporation, the FIRST GENERAL MEETING of proprietors in this undertaking will be RELD in the Assembly Rooms, at Truro, on Wednesday, the 16th December next, at noon.—Those proprietors only who have been previously registered can attend and vote at the meeting.

JOSEPH THOMAS TREFFRY, Chairman. WILLIAM H. BOND, Secretary.

Cornwall Railway Office, 80, Lemon-street, Truro, Nov. 21, 1846.

The sealed certificates will be issued immediately after the above-mentioned meeting has been held.

SLIGO SHIP CANAL COMPANY.—Notice is hereby given, that an EXTRAORDINARY GENERAL MEETING of the company will be HELD at their offices, at Winchester House, Old Broad-street, London, on Wednesday, the 9th day of Docember next, at Twelve o'clock r.m., for the purpose of considering the expediency of selling and transferring the Silgo Ship Canal undertaking, under the powers contained in the company's Act of Incorporation, to the Silgo and Shannon Railway Company; and, if deemed expedient, for deciding and fixing upon the terms of such sale and transfer.

By order of the directors,

A. GOLE, Secretary.

Dated this 17th day of Nov., 1846.

CLIGO AND SHANNON RAILWAY COMPANY.—Notice SLIGO AND SHANNON RAILWAY COMPANY.—Notice is hereby given, that an EXTRAORDINARY GENERAL MEETING of the company will be HELD at their cities, at Winchester House, old Broad-street, London, on Wednesday, the 9th day of December next, at One o'clock r.w., for the purpose of considering the expediency of purchasing the Silgo Ship Canal undertaking, and to authorize the directors to create such an adultional number of shares, and to borrow such sum of money as may be necessary for completing such Purchase, and in ease it shall be desired expedient to make such purchase for confirming the terms thereof.

By order of the directors.

A. GOLE, Secretary.

Dated this 17th day of Nov., 1846.

TO CONTRACTORS.—GRANTON, near EDINBURGH.—
The plans and, medifications for a proposed State BREAKWATER, at GRANTON, may be seen by intending contractors, at the begin are office there, after the 30th Nov. current.—Tenders, seeled, addressed to John Gibson, jun., Eq., W.S., 13, Charlotte-street, Edinburgh, and indorsed. Breakwater Tender, to be delivered at Mr. Gibson's chambers, on or before the 31st December next.

The Duck of Buccheant reserves right to accept any tender, though not the lowest. Edinburgh, Nov. 29, 1848.

LBION PLATE GLASS COMPANY.—The ENTIRE REMISSION of the DUTY on PLATE GLASS has created a demand for that sole far beyond the present power of supply. The vicinity of London affords great and culiar advantages by this manufacture; and several valuable improvements (some of the will be patients) are yet to be developed. To carry out these, in a judicious and murchensive marginer by practical men, who have effected many of the greatest improvements during the last 20 years, this COMPANY HAS BEEN FORMED, under most pectable and settings anapiero: and it will, by manufacturing a superior article; it seed out, andoubtedly, saurer to itself a large and profitable portion of this important of varity increasing branch of trade.

A considerable amount of the capital is already subscribed, and the remaining part of investment will be appearationed to bone fide and responsible parties only—giving a serence to the respectable members of the trade and large buyers.

Apply to the secretary pro ten., at the offices of the company, No. 4, Rallway-place, nechurch-street, where any further information may be obtained.

HENRY HOWARD, Secretary pro tem.

HOLDORN-HILL, SNOW-HILL, AND FARRINGDONSTREET VIADUCT COMPANY.—(REGISTERED PROVISIONALEY.)

Capital £200,000, in 20,000 shares, of £10 each.—Deposit 11s. per share.

The allotment of slares will take place as early as practicable by the committee of management; and, in the meantime, all further applications for shares are to be made to the solicitors, Messrs. Carritt and Osgood, 5, Guildhall Chambers, Basinghall-street; and applicants are requested to confine their references as much as possible to bankers, brokers, or other parties within the city of London.

METROPOLITAN IRON AND STEEL COMPANY,
(Provisionally degistered, pursuant to Act of Parliament, 7 and 8 Vic., c. 110.)
Capital £200,006, pr/1,006 shares of £20 each.—Deposit £2 per shure.
A company has bees fromed for the MANUFACTURE OF IRON AND STEEL (from east, scrap, and all descriptions of old refuse iron), which shall be of a superior quality to any hitherto prefused in the mining districts.—The objects of the company are fully explained in the prospectus.

In allotting the players a preference will be given to contact the company are fully applied to the company applied to the comp

explained in the fifospectus.

In allotting the shares a preference will be given to parties in the iron trado.

Applications for shares and prospectuses to be made to Mr. Charles Chilton, No. 39, doorgate-street; or at the Steam Mills, 135, Old-street.

NEWBRIDGE AND TAFF VALE COLLIERY, GLAMORGANSHIRE, 2000 shares, at £10 each.

BUBRIDGE AND TAFF VALE COLLIERY, GLAMORGANSHIRE.—2000 shares, at £10 each.

This valuable colliery is situate in the parish of Llauwonno, in the county of Glamorgan, in the centre of the South Wales Mineral Basin, contiguous to New Bridge, 12 miles from Cardiff; and the Taff Vale Rallway, from Cardiff to Merthyr Tydvil, runs through the property—granted, 29 s-lease of \$60 acres, for the term of 31 years. The property is aurrounded with profit polyceclieries—one of which (Mr. Coffin's) adjoins this, and supplies the Great Westorn Rhifway. Three veins are found to be throughout this property—the Gofflon Vein, & ft. thick—the Cummor Vein, \$\frac{3}{4}\$, thick—and Coffin's Vein, & ft. thick.

These velus—proved by the assual computation—will yield an aggregate quantity of \$\frac{3}{4}\$ for the will veil a profit of \$2.60\$, per ton, will yield a clear income of upwards of £7500 per annum; but, as this rate of produce will last considerably more than thrice the period of the lease, the collery will be worked by more pits, and, consequently, yield a profit of at least £20,000 per annum, at a cost of, asy, \$6. per ton, and sale \$8.60\$, per ton; but Mr. Coffin obtains considerably more per ton; and, therefore, it is but fair to suppose the present company will obtain the ame; in which case, the profit will be upwards of £30,000 per annum. Even this large sum cannot be supposed to be too highly estimated, when it is recollected that the utmost cost is estimated at 6s. per ton, and the sale only at the moderate price of \$8.60\$, per ton—whereas all cost of the district is soid above the estimate, and that the taff Vale Railway runs through the groperty—that the colliery is within 13 miles of the large shipping port of Cardiff—that the coal as known to be of superior quality for 'steam-ceptuse, from the fact of its being used by the Great from the plat and directly placed on the railway. The colliery will be in full operation in about two years. For the first year the shurcholders will receive a dividend of only be precent, COST OF PRODUCTION AND CARRIAGE TO SHIPPING PORT.

Total

Sale, 8s. 6d.—Cost, 6s. 0d.—Profit, 2s. 6d. per ton.
on for shares, to be made to Messrs. Roberts, Carter, and Co., m
Portman-street, Portman-square, where the engineer's calculation
il (also a plan of the property, and conditions obtained).

STEAM COAL—WITHOUT SMOKE, as per experiments

made at her Majesty's Dockyard, Woolwich.

CAMERON'S COALBROOK STRAM COAL, AND SWANSEA AND LOUGHOR
RAILWAY COMPANY.—(Completely Registered and Incorporated.) OFFICES-2, MOORGATE-STREET, LONDON.

e directors are now prepared to supply steam ship companies, manufacturers, shippers others, with the company's steam coal, either at the company's wharf at Swansea, or nodon. A statement, showing by comparative trial the superiority of this coal for purposes over every other, and a scale of prices, may be had on application at the pany's offices here, or at their wharf at Swansea.—March 18, 1346.

TO BAILWAY COMPANIES, COKE BURNERS, IRON FOUNDERS, &c.

CHUKCL'S PATENTED IMPROVEMENTS IN THE
MANUACTURE OF COKE, AND CONSTRUCTION OF COKING OVENS.

LICENSES TO USE THIS PATENT may now be obtained, on application to Messrs.
Theobald and Church, Gas Works, Colchester, Essex.

MPORTANT TO ENGINEERS, MANUFACTURERS, MASTERS, MASTERS, MASTERS, MASTERS, MASTERS, MASTERS, MASTERS, MESTAN, BOAT COMPANIES.

MESTAN, W. S. C. MASTER beg to call the attention of the ABOVE PARTIES to their APPROVED ELASTIC METALLIC PISTONS.

The PRINCIPAL FEATURE and ADVANTAGE of THIS IMPROVEMENT is—

1. Its great ELASTICITY and SELF-ADJUSTING PROPERTIES, which enable it to yield to any inaccuracy of the cylinder, whether oval or taper, and to move with the least possible friction.

2. Its extreme SIMPLICITY and LIGHTNESS, consisting of only the control of the cylinder.

SIMPLICITY and LIGHTNESS, consisting of only two cal and lateral pressure in due and proper proportion, each other.

3. It takes the LEAST possible SPACE, and is well adapted for air and water as it allows of a larger water way.

3. It takes the LEAST possible SPACE, and is well adapted for at and water-pumps as it allows of a larger water way.

Mesers, W. & C. MATHER feel confident that it is the BEST ELASTIC METALLIC PACKING yet known, for the above reasons.

Models may be seen at the Salford Iron-Works, Manchester; at W. Barker's, engin Newton-Moor; and also at J. Mather's, engineer, Beaufort-street, Chelsea, London.

AP-WELDED IRON TUBES FOR STEAM-BOILERS. AP-WELDED IRON TUBES FOR STEAM-BOILERS.

THE BIRMINGHAM FATENT IRON TUBE COMPANY.

42, CAMBRIDGE-STREET, BIRMINGHAM, & SMETHWICK, STAFFORDSHIRE, MANUFACTURE TUBES under an exclusive license from Mr. Richard Prosser, the patentee. These tubes are now very extensively used in the boiliers of marine and locomotive steam-engines in England and on the continent—are stronger, lighter, cheaper, and more durable than brass or copper tubes, and warranted not to open in the weld. They may be fixed in the boilers without ferales, and can be taken out and refixed without additional trouble or expense.—Address, 42, Cambridge-street, Crescent, Birmingham.

LONDON WAREHOUSE.

TO ENGINEERS, BOILER-MAKERS, AND OTHERS. W. H. RICHARDSON, Jun., & CO., DARLASTON, STAFFORDSHIRE,

MANUFACTURE all DESCRIPTIONS of WEDDED WROUGHT-IRON TUBES, for STEAM, GAS, &c., of any required length and diameter, on the new and unequalled principle of Mr. J. Roose's recent invention (patented August, 1846).—Address as above.

THE PROJECTED RAILWAYS.

PATENT METALLIC SAND OR ENGLISH POZZOLANO.

—The PROPERTORS of the METALLIC SAND, after many years' experience of its merits, confidering RECOMMEND it to the attention of Engineers, Architects, Builders, and the public sprefailty as an invaluable article for HYDRAULIC and OTHER WORKS requiring greaf strength and durability.

In analysis, the metallic sand is very similar to the Italian Pozzolano—the value of which, in all subsqueous works, isso well known to engineers and architects; but from its granular form, and the sharpness of its angles, and the increased quantity of iron it contains, the metallic sand has been found miere durable, and much cheaper than any other similar material at present in use.

[A-2]

From its chemical qualities it farms, in admixture with lime and common and, a cement, mortar, or concrete, of fintly hardness, and almost entire incompressibility; and from its adhesive and impervious qualities, it completely and for ever excludes water. The more it is exposed to the atmosphere, and to wet and damp, the harder and more durable its becomes. In the formation of mortar and concrete, it has been extensively used in the great tunnels on the London and Birmingham Railway, in the foundations of the New Houses of Parliament, see walls on the North Devon Railway, Clifton Reservoirs, and other works of importance.

As an external stucce, the metallic sand cement is presidented.

of Parliament, see was on the recent review and control of importance.

As an external stucco, the metallic sand cement is unaffected by frost or wet; in appearance it resembles the best Portland stone; requires, therefore, neither colour nor paint, and is entirely free from vegetative cracks and blisters, to which Roman cement

Further information will be given, and specimens shown, on application to Mr. C. K. Dyer, 4, New Broad-street; and at the Metallic Cement Wharf, King's Road (opposite Prati-spect), Camden New Town, London.

BRISTOL AND POOLE HARBOUR RAILWAY

Capital £1,000,000, in 50,000 shares, of £20 each.—Deposit £2 2a. per share.

REGISTERED PROVISIONALLY.

Sir E. DOUGHTT, Bart., Upton House, Dorset.

JOHN SAMUEL WANLEY SAWBRIDGE ERLE DRAX, Esq4, M.P., Charborough Park, Dorset.

J. WELD, Esq., Lulworth Castle, Dorset.

Colonel JOHN MICHEL, Dulish House, Dorset.

WILLIAM CARTWRIGHT, Esq., Proprietor of Collieries in Monmonthablice and Glamorganshire.

B. ASHORD F.E.

and Glamorganshire.
E. B. ASHFORD, Esq., Babcary, Somerset.

HENDY STRETTON, Esq., Ramsgate, Chairman.

Major J. B. Home, Army Navy Club.

Mussel-squaro.

Russel-squaro.

Russel-squaro.

Russel-squaro.

Russel-squaro.

Russel-squaro.

Roma Ferey, J. Lamb's Conduit-place.

George Chisman, Esq., Dalston, Middlesex,

W. Mainwaring Sloane, Seymour-st. ames Caleb Anderson, Bart. [George Chisman, Esq., Dalston, Mispacoulous Committee]

Fred. William Hamilton, Esq., 59, Gloucester-place.

(With power to add to their number.)

Fred. William Hamilton, Esq., 59, Gloucester-place.

Res Price, Esq., M.D., Tyne Hall, Great Hord, Essex.

Capt. T. C. Newton, Bruton-street, and Lugwarden, Herefordshire. Thos. Othery Rayner, Esq., M.D., F.S.A., 1, Matthew's-place, Cambridge-lev. C. Davies, Sandgate.

Major J. Mill, Guernsey.

Benjamin Head, Esq., 27, Gloucester-terrace, Kensington.

Edward Sankey, Esq., Canterbury.

J. Johnson, Esq., Davies-street, Herkeley-square.

G. Pusey, Esq., The Dells, Stoke Newington.

N. Crosch, Esq., Bamilton-square, Birkenhead, Cheshire.

John Britten, Esq., Basinghall-street.

Lieut. Charles T. Hill, R.N., Queen's-square, Bristol.

Henry Lyster, Esq., Synje-terrace, Wandsworth.

Capt. Hippisley, Somerset-street, Cavendish-street,

London and County Bank; the London Joint-Stock Banking Company.

CONDETE BANKESS.

Stuckey and Co.; National Provincial Bank of England: Messys. Lede.

COUNTRY BANKERS.

Id Co.; National Provincial Bank of England; Messrs. Ledgard and Co., Poole; Messrs. Bastard and Co., Blandford.

Engineer.—George Rennie, Esq.

SECRETABLES (pro tem).—Messrs. Castleman and Kingd

solicitors.

Gilbert Stephens, Esq., 13, Northumberland-street, Strand.

Messrs. Castleman and Kingdon, Winborne.

SEGRITARIES (pro tem).—Hearns. Castleman and Kingdon.

Gilbert Stephens, E.S.q., 18. Northumberland-street, Strand.

Mossr., Castleman and Kingdon, Winhorne.

Since issuing the former prospectus, the committee being determined to proceed on the sarest grounds, and anxious for the ultimate success of the undertaking, have made that the common the common process of the common process of the sarest grounds, and anxious for the ultimate success of the undertaking, have made there are not received to the expectations upon which they grounded their former prospectus.

This into of railway, commencing at Prietdo, will open a direct communication with Poole, passing through er near the important towns and villages of Whitchurch, Pensfert, to Poole Harbour; and thus, by means of the line of packets intended to be established by the company, from that port in the Channel Islands and Cherbourag, and the railway, to Poole Harbour; and thus, by means of the line of packets intended to be established by the company, from that port in the Channel Islands and Cherbourag, and the railway will complete the line of communication by the most direct way from Edinburgh to the south of France; than smalling that conarty to supply herreld with many articles of commerce as little more than half the cost she at present pays, and leaving a good rememer as a little more than half the cost she at present pays, and leaving a good rememer as a little more than half the cost she at present pays, and leaving a good rememer as a little more than half the cost she at present pays, and leaving a good rememer and the proposed line, for its different saval and stem doplet through one of the company and the prominent:—The supply of the Government with cost from the Welsh and Someret-shrepits, premate of the proposed line, for its different saval and stem doplet through one of the process of the process

ral meeting of the same content and the plant of the committee pladge them selves to return £1 17s. per share instead of £2 2s., and a proportionately larger amount if the accounts of the company, upon inspection, show a less expenditure.

At the first general meeting of the shareholders the committee will produce an account signed by the bankers, of the several sums received by them on account of the company—thereby warranting to the shareholders, that the amount subscribed is still in the handset the bankers, minus the 8s. per abare.

The future plant of the company will be laid before the shareholders at their first general meeting, and everything submitted to their investigation and approval.

To the Provisional Committee of the Bristol and Poole Harbour Railway Co

To the Provisional Committee of the systot and Prove Introduc Author Committee of the Systot and Prove United States of £20 each, in the above undertaking, agreeably to the prospectus; and I agree to accept such ahares as may be alsofted me on the terms above mentioned, and also to pay the deposit thereon, and to sign the Purliamentary contract and subscribers' agreement, when required.—Dated the day of 1846.

Kame.

Residence

Trade or profession

Eference.

. Applications for shares may be made, in the above form, at the essess of the company, 55, King William-street, City; Gilbert Stephens, Esq., 13, Northumberland-step Strand; Messrs. Castleman and Kingdom, solicitors, Wimborne; T. Hyat, Esq., solicitor Sheptom Mallet; S. Smith, Esq., Bandford; M. K. Welch, Esq., solicitor, Soole; R. Bateso, Bridgowator; Messrs. Drew and Charlton, sharebrokers, Manchesser; Messrs. Smith and Co., stockbrokers, Edinburgh; Messrs. Stmley and Wasborongh; solicitors Bristol; Messrs. Bradley and Barnard, stockbrokers, Bristol; Messrs. Hill and Williams, solicitors, Farrington Gurney; J. McGeorge, Esq., 110, St. Vincent-street, Glasgows Messrs. Lane and Perry, stockbrokers, Birmingham; Messrs. Thompson and Co., stockbrokers, Derby; and Messrs. Jones and Co., Dame-street, Dublin.

London:—Printed and Published, weekly, by HENRY Essenses, at the Office, No. 26, FLEET-STREET,
in the city of London, where all Communications and Advertisements are request forwarded—addressed to "the Editor"—post-poid.

**November 29, 19